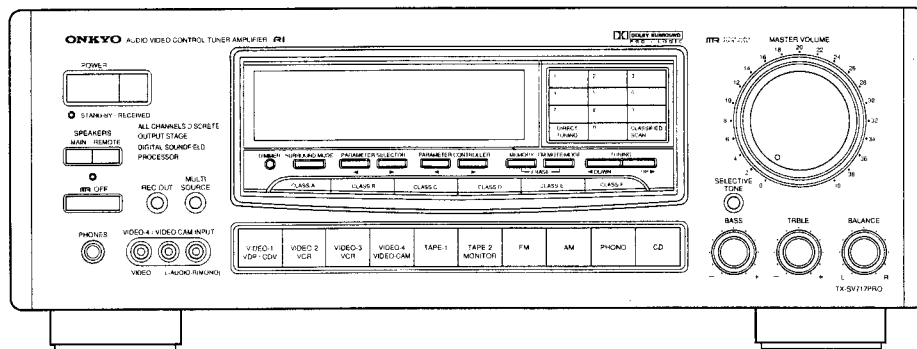


ONKYO®

Audio Video Control Tuner Amplifier

TX-SV717PRO



Instruction Manual

● **C**ongratulations on your purchase of the ONKYO TX-SV717PRO Tuner-Amplifier. ● Please read this manual thoroughly before making connections and turning power on. ● Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new TX-SV717PRO. ● Please retain this manual for future reference.

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CAUTION:

"TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL."



- The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



- The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

"WARNING"

"TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE."

- For models having power cords with a polarized plug.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

- Sur les modèles dont la fiche est polarisée.

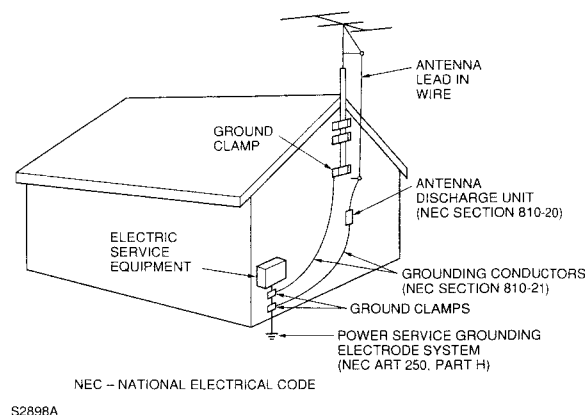
ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

Important safeguards

1. **Read Instructions** – All the safety and operating instructions should be read before the appliance is operated.
 2. **Retain Instructions** – The safety and operating instructions should be retained for future reference.
 3. **Heed Warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
 4. **Follow Instructions** – All operating and use instructions should be followed.
 5. **Water and Moisture** – The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
 6. **Carts and Stands** – The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- PORTABLE CART WARNING
-
7. **Wall or Ceiling Mounting** – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
 8. **Ventilation** – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
 9. **Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
 10. **Power Sources** – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
 11. **Polarization** – If the appliance is provided a polarized plug having one blade wider than the other, please read the following information; The polarization of the plug is a safety feature. The polarized plug will only fit the outlet one way. If the plug does not fit fully into the outlet, try reversing it. If there is still trouble, the user should seek the services of a qualified electrician. Under no circumstances should the user attempt to defeat the polarization of the plug.
 12. **Power-Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the appliance.
 13. **Cleaning** – The appliance should be cleaned only as recommended by the manufacturer.
 14. **Power Lines** – An outdoor antenna should be located away from power lines.

15. **Nonuse Periods** – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
17. **Damage Requiring Service** – The appliance should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
18. **Servicing** – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
19. **Outdoor Antenna Grounding** – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of the antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure 73.1.

**FIGURE 73.1:
EXAMPLE OF ANTENNA GROUNDING
AS PER NATIONAL ELECTRICAL CODE**



Note to CATV system installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Precautions

1. Warranty Card

The serial number is written on the rear panel of this unit. Copy the serial number and model number onto your warranty card and keep it in a safe place.

2. Recording Copyright

Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.

3. AC Fuse

The fuse is located inside the chassis and is not user serviceable. If power does not come on, contact your ONKYO service center.

4. Care

From time to time you should wipe off the front and rear panels and the cabinet with a soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water or a mild ammonia cleaner, wring it out dry, and wipe off the dirt. Following this, dry immediately with a clean cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these could damage the finish or remove the panel lettering.

5. Power

BEFORE TURNING ON POWER FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

- Some models are designed for use only with the power supply voltage of the region where they are sold.

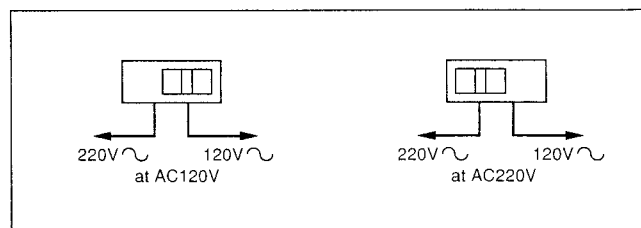
U.S.A. and Canadian models: AC 120V, 60Hz

Worldwide models: 120 and 220V switchable, 50/60Hz

Voltage Selector (Rear Panel)

Worldwide models are equipped with a voltage selector to conform with local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before turning the power switch on. Voltage is changed by sliding the groove in the switch with a screwdriver to the right or left.

Confirm that the switch has been moved all the way to the right or left before turning the power switch on. Models without a voltage selector can only be used in areas where the power supply is the same as that of the unit.



Tuning Step Frequency Switch (Rear Panel)

Worldwide models are equipped with a switch that controls the AM (9kHz/10kHz) band tuning steps.

Be sure to set this switch to match the tuning step frequency in your area.

Features

5-Mode DSP (Digital Signal Processor)

DSP enhances any audio or A/V source by providing five acoustic "environments", Hall, Theater, Live, Studio and Dolby Pro Logic Surround.

Full Digital Dolby Pro Logic

Dolby Pro Logic gives you a center channel to keep movie dialogue firmly locked on the screen. Surpassing analog, it is completely digital to give you clearer separation, better sound imaging and improved localization.

Easy-to-use On-Screen Displays

They're easy to understand, and tell you practically everything you need to know. Four simple cursor buttons on the remote control let you operate the displays, even in a completely darkened room.

Plenty of Clean Power

All five channels use discrete output stage amplifiers, so you can easily drive low-impedance loads. In stereo mode you get 110 watts per channel into 8 ohms, to the Front speakers. Surround mode gives you 85 watts per channel into 8 ohms, to the Front Left, Right & Center speakers, and 30 watts per channel into 8 ohms, to the Rear/Remote speakers.

Multiple-Room Remote System and Multi-Source Selector

4 Video and 6 Audio inputs (Selectable)

Direct Access Tuning

40-Station Random Preset Tuning & 6-Group Classified Memory

8 Heavy-Duty Four-Way Banana Plug Speaker Terminals

Compatible Programmable Remote Control Supplied

Explanation

Surround system

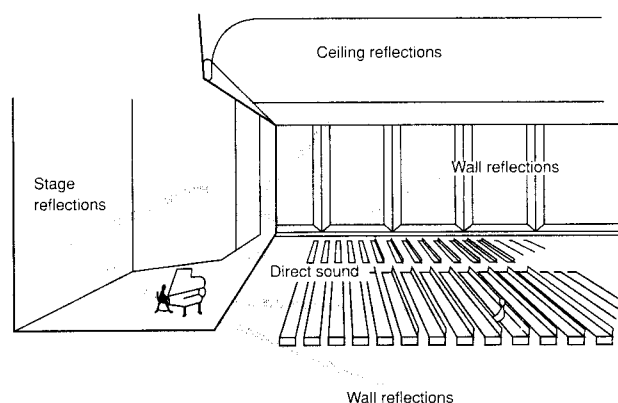
Many motion pictures produced in the last decade have been released in "Dolby Stereo" sound, with music, dialogue, and panned effects coming from the 3-channel front soundstage, and surround effects and ambience emanating from the sides and rear of the theater. These four channels are encoded, or matrixed, into a two-channel DOLBY STEREO release, and decoded in the theater by a professional DOLBY STEREO MP (Motion Picture) decoder. These surround sound effects are "hidden" in the two-channel stereo movie release, and decoded in the theater by special Dolby equipment.

These same two-channel motion picture masters are used for production of stereo VHS, VHS-Hi-Fi, Beta Hi-Fi, and stereo Laser Vision discs that you can buy or rent at your video store. The TX-SV717PRO incorporates the Digital Dolby Pro Logic Surround Circuit, which is designed to emulate the audience experience found in DOLBY STEREO theaters. Like Dolby Surround, Dolby Pro Logic Surround is capable of creating a multi-dimensional soundstage, but with the increased channel separation it gives a far greater sense of "movement" and sound localization. Just like in the theater, the addition of the active Center channel ensures that all audience members hear dialogue coming from its on-screen sources regardless of seating position.

Since the TX-SV717PRO is equipped with Front amplifiers, Center amplifier and rear (Surround) amplifiers, Dolby Pro Logic Surround, Theater, Hall, Live and studio effects can all be produced. You can enjoy the feeling of a movie theater or concert hall in your own room. To reproduce these effects, Rear (Surround) speakers and center speaker are necessary. The placement of these speakers is important. You can experiment with various positions and locations to find the best placement for optimum sound quality in your room.

DSP (Digital Signal Processor)

The DSP converts the musical signal into digital form and produces reflected sound from the digital signal. This is applied to the musical signal to yield an effect approaching that of a live performance.



NOTE:

The same kind of sound and natural expansion of sound that you experience in a theater or concert hall can be achieved in your listening room. Hall mode would be best suited to jazz and classical music.

The concert hall effect is produced from the reflections and reverberations contained in the original recording. These are converted into reflected sound that is reproduced from four directions. Thus, in some cases an unnatural impression can be conveyed if there are too few reflections in the recording or if the effects in the original recording were produced artificially.

The concert hall effect is not merely an artificial reverberation unit, but a sophisticated effect that spreads existing reverberation around.

Multiple Room Remote System (MR)

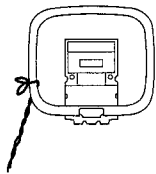
The ONKYO HR-10(W) Remote Sensor (sold separately) greatly increases system flexibility. Used with your TX-SV717PRO, the HR-10(W) allows you to control speakers even when you are not in the same room as the TX-SV717PRO. In addition to basic functions like speaker on-off and volume and so on, you can also control most ONKYO CD players, cassette decks and digital audio tape decks that use the **RI** system. Adding an HE-50(AC) Remote Emitter (also available as an option) allows you to control even the non-ONKYO components in your home entertainment system from a separate room.

When the HE-50(AC) is being used to control more than one device from a distance but the infrared beams from the HE-50(AC) remote control alone will not reach these devices, connect an HE-10 (Remote Emitter head) to the HE-50(AC), and set it up to be aimed at the devices to be controlled. The HW-2 cable 6-1/2' (2m) is attached with the HE-10. Up to three HE-10 units can be used with this equipment.*

Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. number 3,959,590; Canadian numbers 1,004,603 and 1,037,877. "Dolby", "Pro Logic", and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

Before using this unit

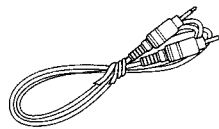
Supplied accessories



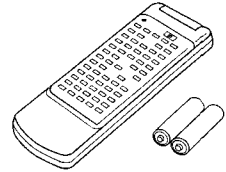
(AM loop antenna × 1)



(T-shaped FM antenna × 1)

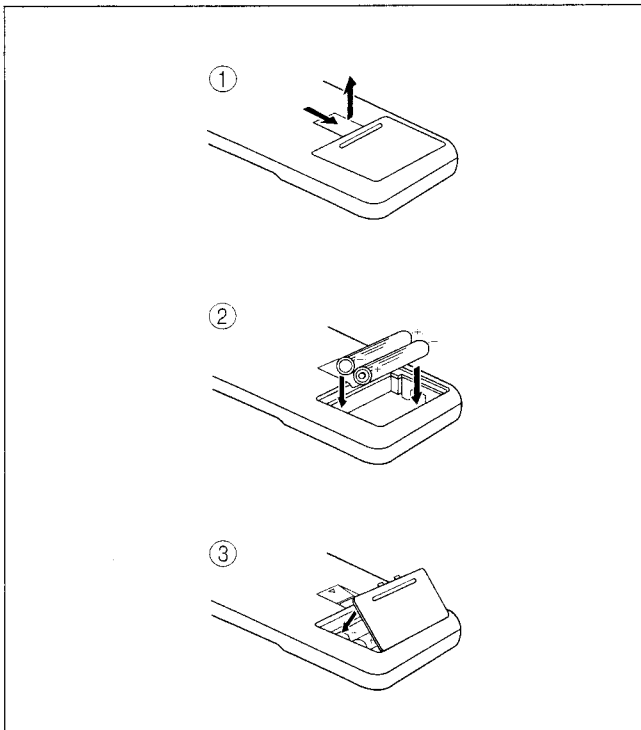


(RF remote control cable × 1)



(Remote control × 1
Batteries × 2)

Remote control battery insertion



Loading the batteries

Remove the battery compartment cover by opening it as shown in the figure. Load two AA (R6) size batteries with the plus (+) and minus (–) terminals positioned as indicated by the diagram inside the battery compartment and close the cover.

- When the batteries lose their power, the indicator on the remote control will flash when any button is pressed.
- Remove dead batteries immediately to avoid corrosion damage.
- To avoid potential corrosion damage, never mix old batteries with new ones.
- Learned codes are not lost even when the batteries are replaced. They may be lost, however, if battery replacement is not completed within an hour. In this case, the unit must learn the codes again.
- The manganese batteries supplied with this unit have a service life of approximately six months, depending on frequency of usage.
- The TX-SV717PRO comes equipped with AA (R6) manganese batteries, but we recommend that long-life alkaline batteries AA (LR6) be used when replacing the batteries.

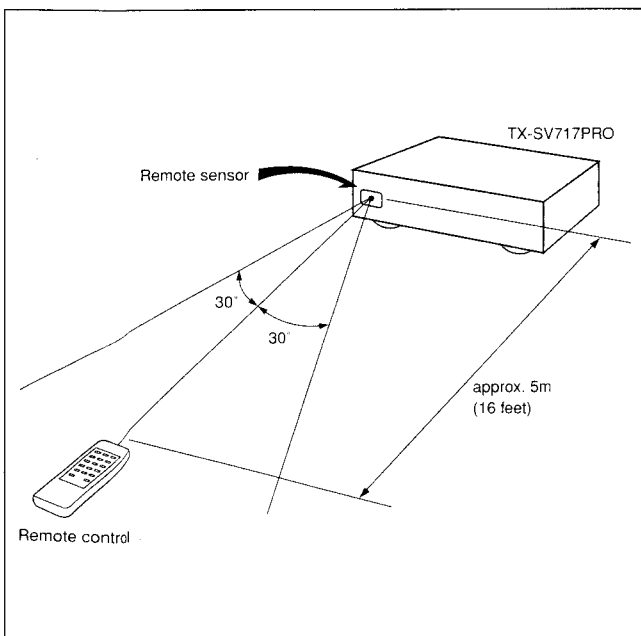
Precautions

- This unit uses infrared rays. Therefore, commands may not be received properly, if the Front panel of the TX-SV717PRO is exposed to bright light. To prevent this from occurring, place the TX-SV717PRO so that it is not directly exposed to bright light.
- If the TX-SV717PRO is placed inside an audio rack behind a glass door, the door should not use colored glass or have any decorations on it since this could shorten the range or prevent commands from being received.
- Use of other infrared remote control devices in the same room may cause interference.
- The remote control operates up to a distance of about five meters (16 feet). The transmitting window must always be pointed at the reception window when a command is sent to the TX-SV717PRO.
- If the remote control does not operate properly, confirm that the batteries are not dead. If the problem persists, contact your Onkyo Service Center.

Memory preservation

The TX-SV717PRO itself does not require memory preservation batteries. A built-in memory power back-up system preserves the contents of the memory during power failures and even when the unit is unplugged. The unit must be plugged in in order to charge the back-up system.

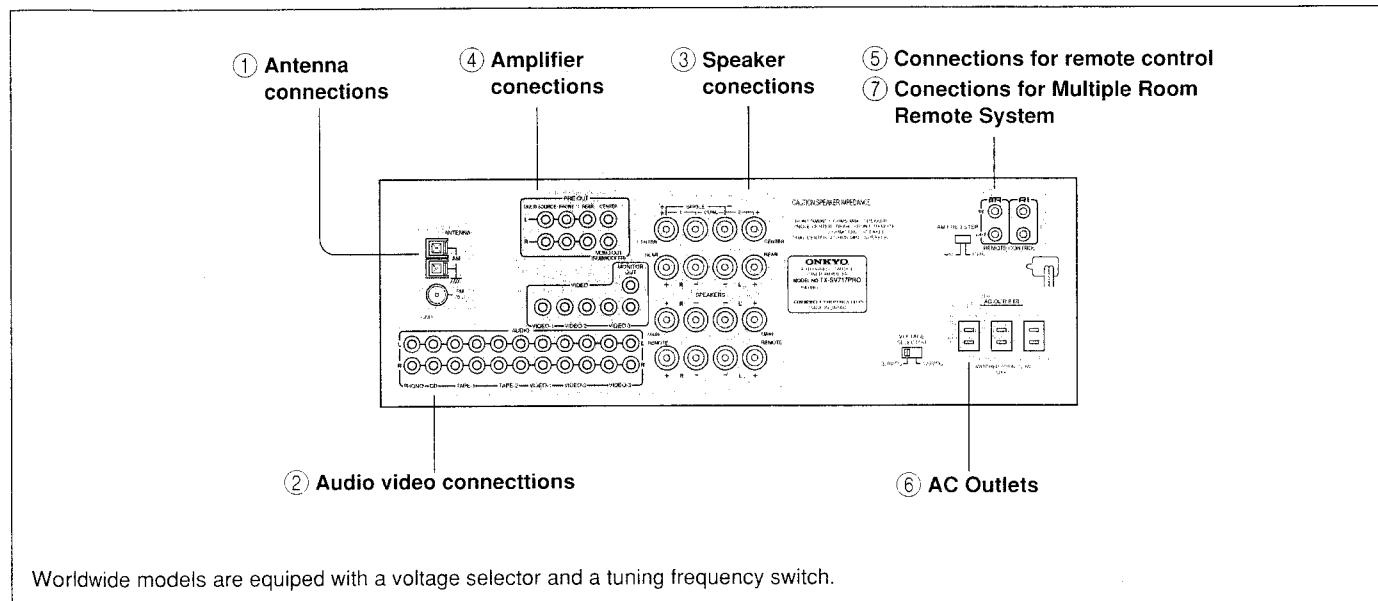
The memory preservation period after the unit has been unplugged varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been unplugged. This period is shorter when the unit is exposed to a highly humid climate.



System connection

Do not plug in the mains power cord until all other connections have been made.

As the sound quality of this unit will diminish if the left and right channels are reversed, ensure that the left and right channel connections are correct. When jacks on other equipment or connection cables are color coded the color red usually corresponds to the right channel. (Red = Right)

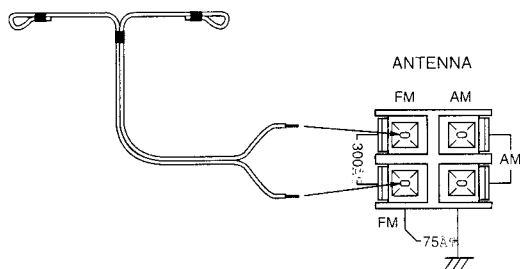


1. Antenna connections

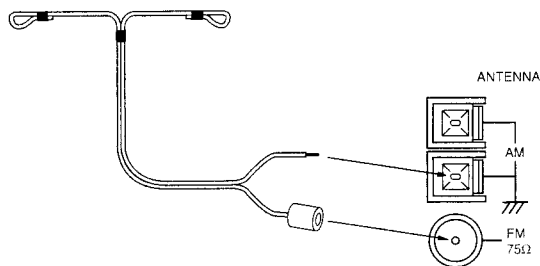
FM indoor antenna connection

Move the antenna in various directions until the clearest signal is received. Fix it with push pins in the position with the least amount of distortion.

(USA and Canadian models)



(Worldwide models)



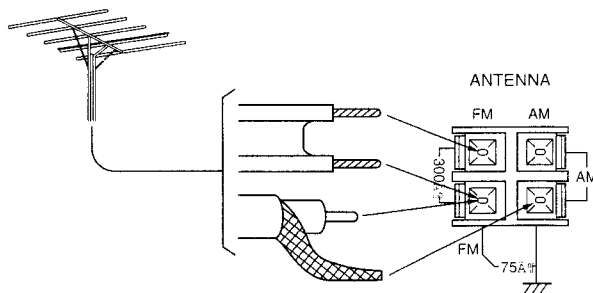
NOTE:

If the reception is not very clear with the attached T-shaped antenna the use of an external antenna is recommended.

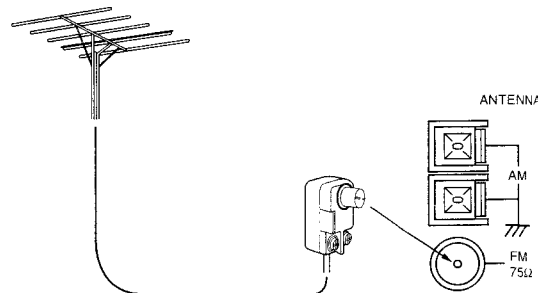
FM outdoor antenna connection

Keep the antenna away from noise sources (neon signs, busy roads etc.) It is dangerous to put it close to power transmission cables, so keep it well away.

(USA and Canadian models)



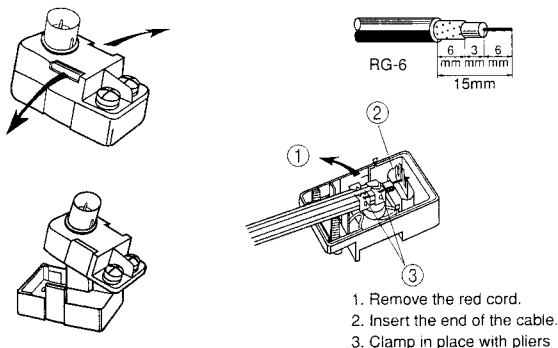
(Worldwide models)



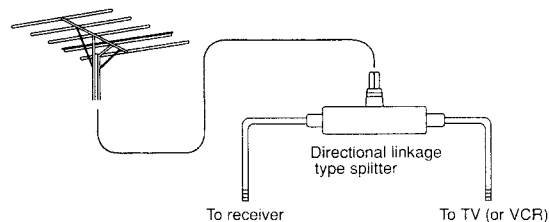
How to connect a 75/300 ohm antenna adapter (included) (worldwide models only)

Connecting a coaxial cable

1. With your fingernail or a small screwdriver, press the stopper outwards and remove the cover.
2. Prepare the coaxial cable as shown below.
3. Connect the 75/300 ohm antenna adapter to the coaxial cable



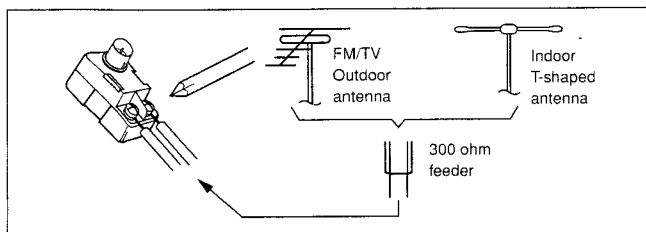
Directional linkage



NOTE:

Do not use the same antenna for both FM and TV (or VCR) reception since the FM and TV (or VCR) signals can interfere with each other. If you must use a common FM/TV (or VCR) antenna, use a directional linkage type splitter.

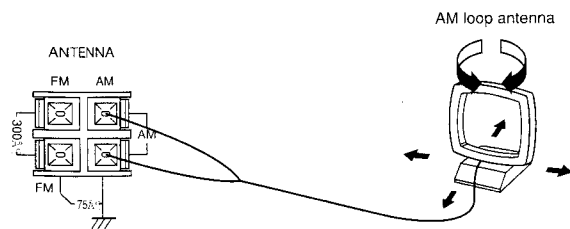
Connecting a T-shaped FM antenna or 300 ohm FM outdoor antenna (worldwide models)



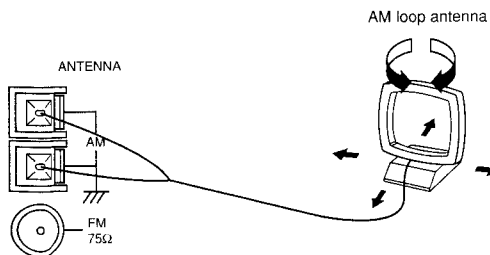
AM indoor antenna connection

Set it to the direction where you can receive the clearest sound, and as far away from the main unit as possible. If you bring it closer to the connecting wires you may get some interference.

(USA and Canadian models)



(Worldwide models)



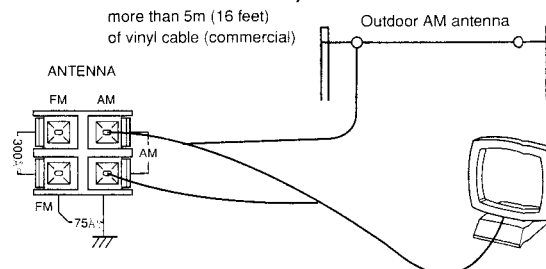
NOTE:

Where reception is unsatisfactory with the attached AM loop antenna alone, it is recommended that you attach an external antenna.

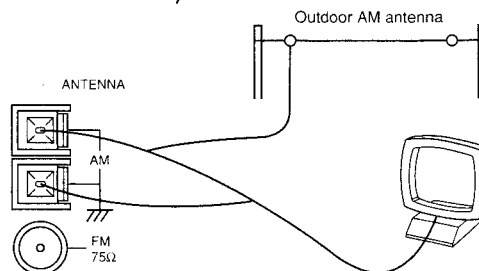
AM outdoor antenna connection

Do not remove the AM loop antenna. The external antenna will be more effective if you stretch it horizontally in a high place above a window, or outside.

(USA and Canadian models)



(Worldwide models)



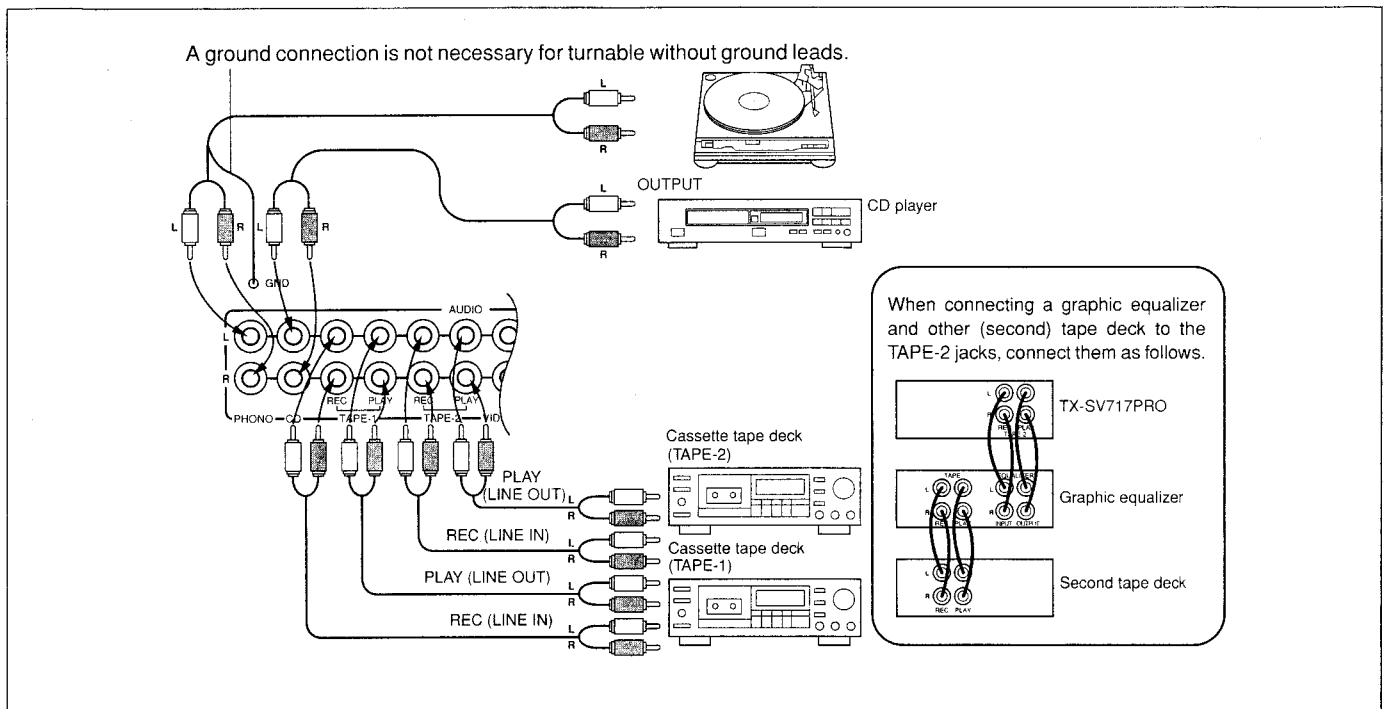
NOTE:

AM reception is easily affected by television sets and VCRs. Therefore, AM reception may be poor if this unit is placed too close to a TV or a VCR.

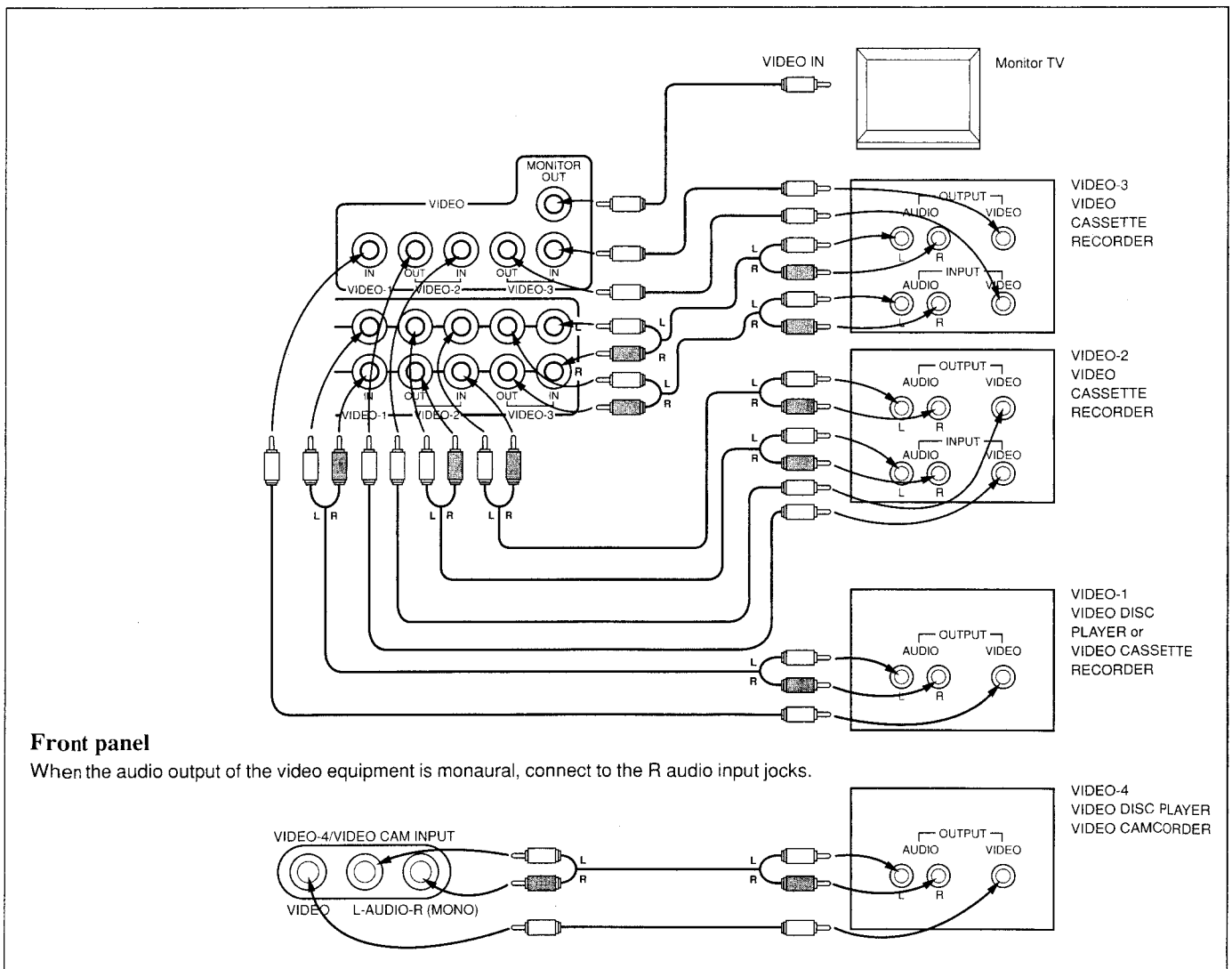
2. Audio video connections

Please refer to each device's instruction manual regarding operation and installation procedures and precautions.

Audio components connection



Video components connection



3. Speaker connections

Connecting the speakers

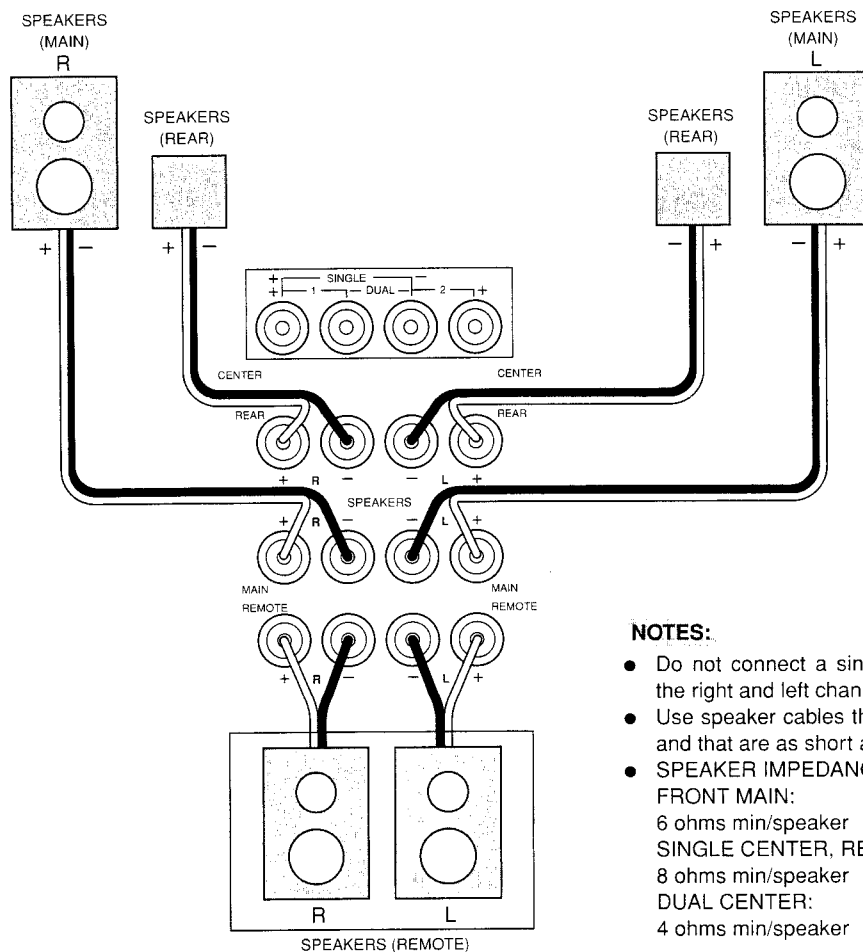
If you want to use the Surround effects, the Rear and Center speakers must be connected.

Please refer to "Connecting the Center speaker(s)" below when connecting Center speaker(s).

The speakers that are to be located in the same room as the TX-SV717PRO should be connected to the MAIN speaker terminals.

Different sets of speakers that are to be located in another room (or the same room) should be connected to the REMOTE speaker terminals.

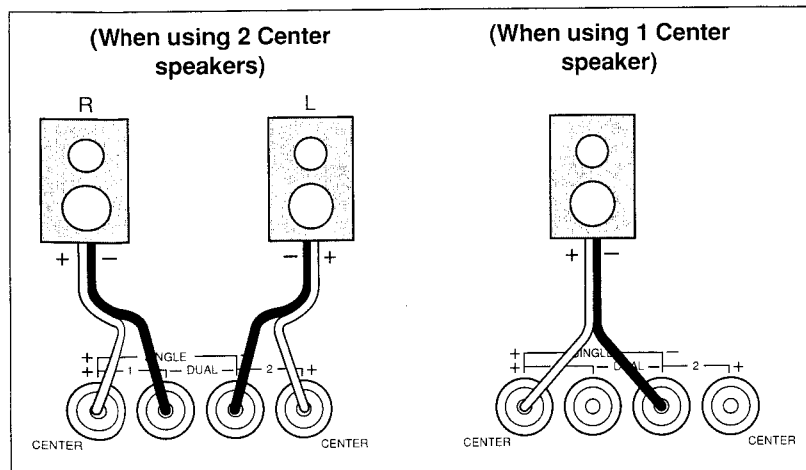
To get the full effects of the Surround processor, ensure the left and right Front and Rear speakers are not reversed.



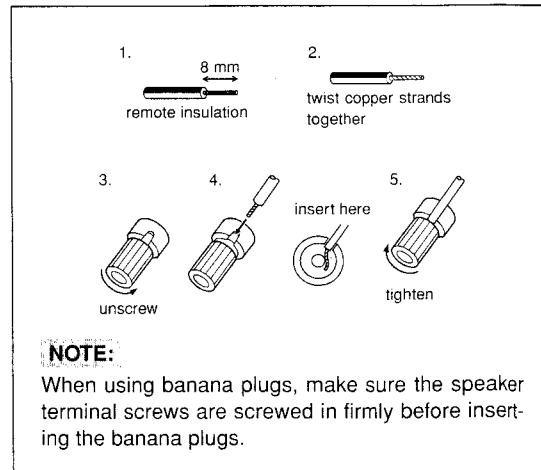
NOTES:

- Do not connect a single speaker in parallel to the right and left channel outputs.
- Use speaker cables that have a low impedance and that are as short as possible.
- **SPEAKER IMPEDANCE**
 FRONT MAIN:
 6 ohms min/speaker
 SINGLE CENTER, REMOTE, REAR:
 8 ohms min/speaker
 DUAL CENTER:
 4 ohms min/speaker

Connecting the Center speaker(s)



Connecting the speaker cables



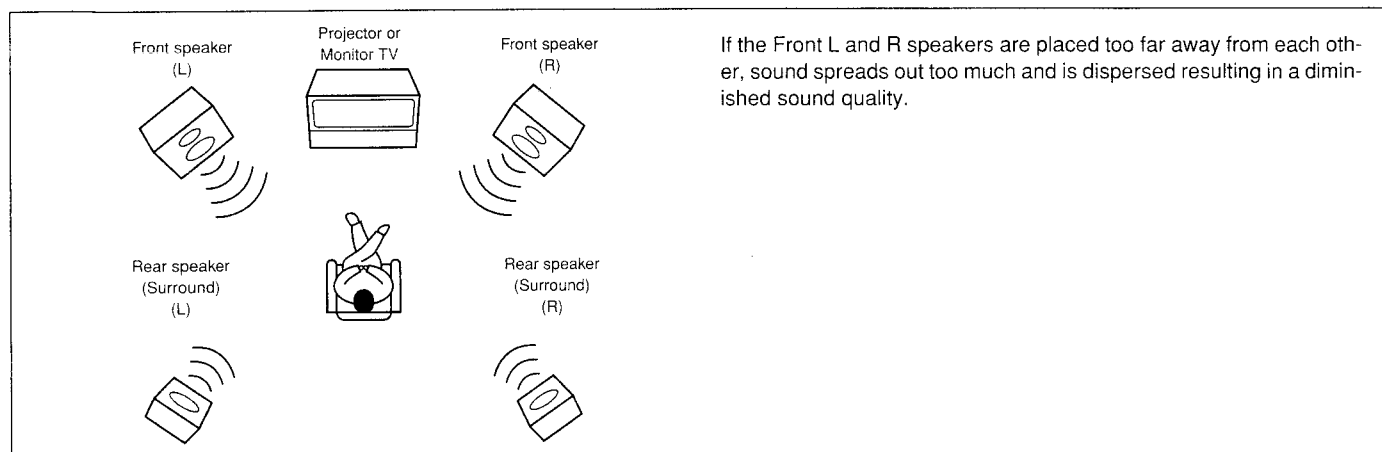
Speaker placement

Placing the speakers for Surround effects

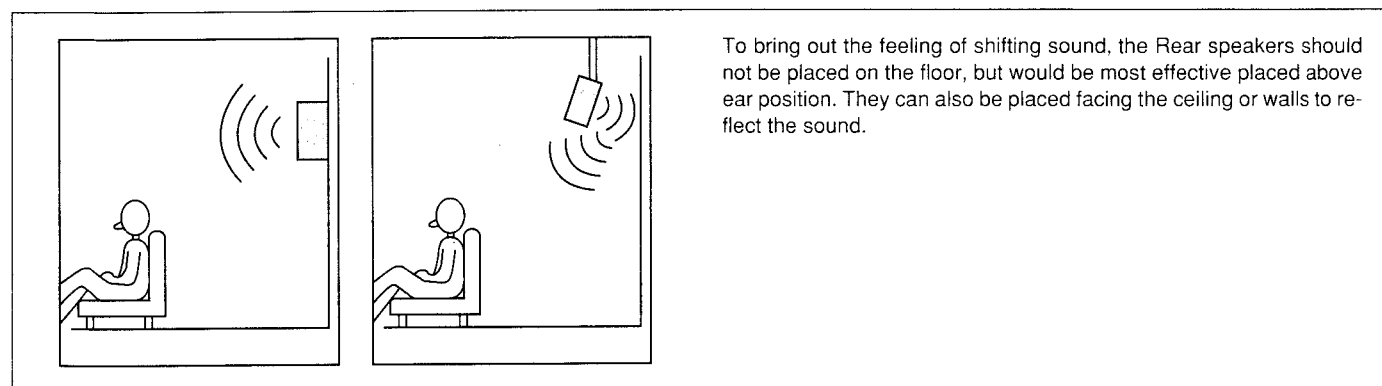
Speaker placement plays an important role in the reproduction of sound using Surround. The manner in which the speakers are placed varies depending on the size of the room and the wall coverings used in the room. The following shows an example of a layout for standard speaker placement. Refer to the example for placing the speakers appropriately in order to experience the best of Surround sound.

In principle for Surround sound reproduction, two Front speakers and two Surround (Rear) speakers are required. Refer to the illustration on the left.

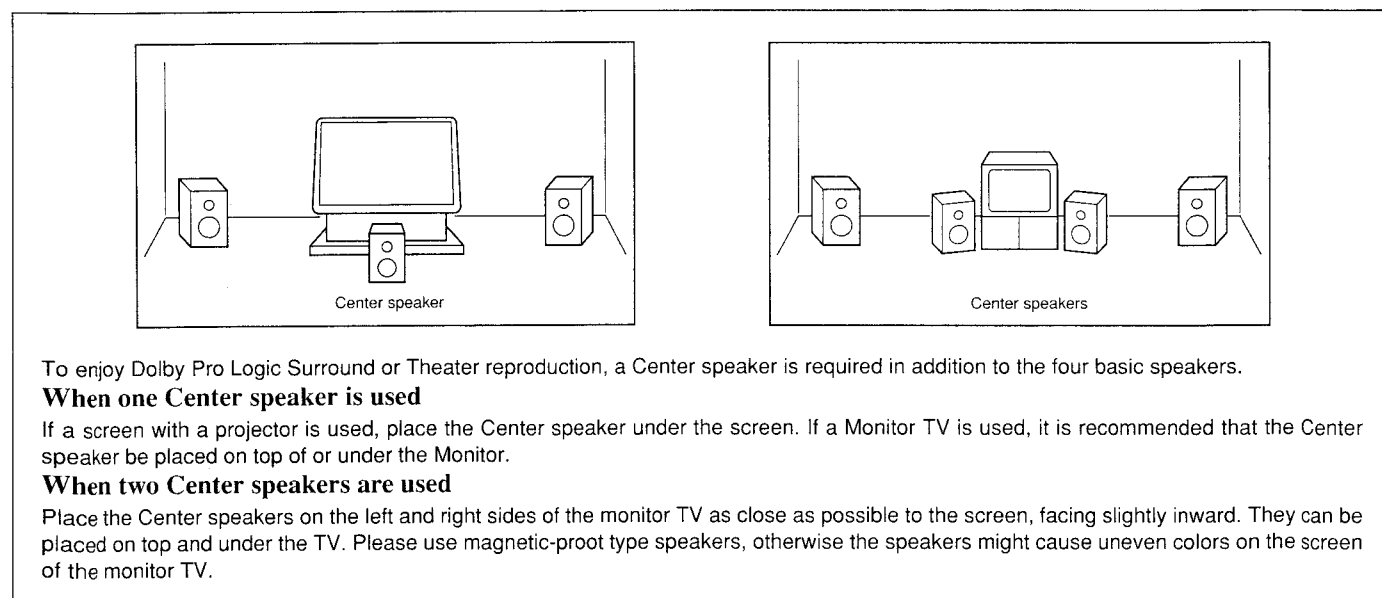
Placing the Front speakers



Placing the Rear speakers



Placing the Center speaker

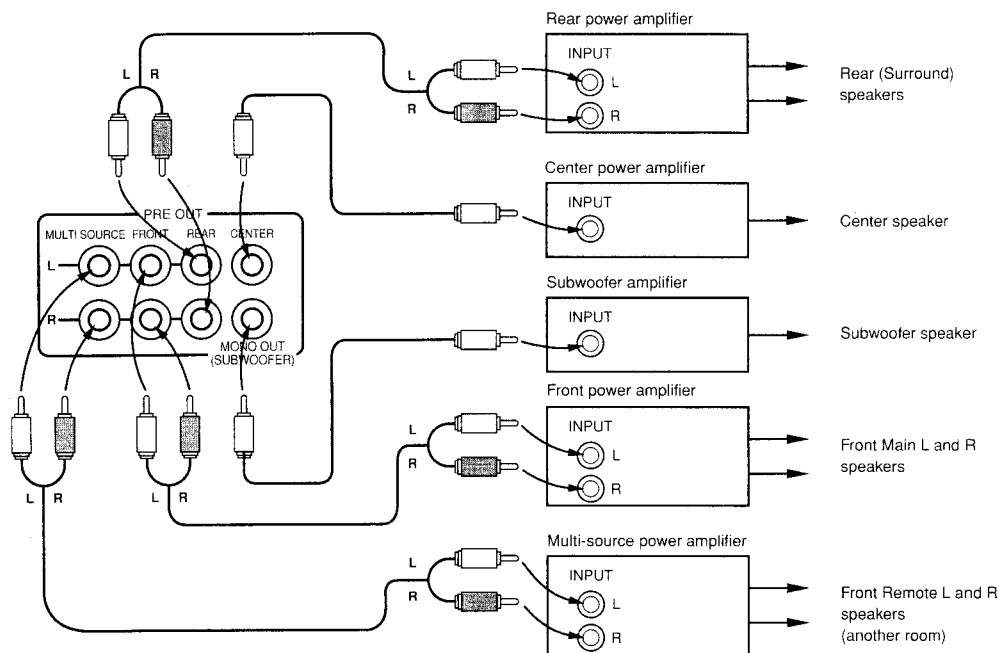


Placing a Subwoofer speaker

To enjoy powerful bass sounds, install a subwoofer with a built-in power amplifier. The placement of the Subwoofer does not affect the final quality of the sound image too much, therefore as its exact placement is not critical, you can install it more with the room layout in mind. To especially enjoy A/V Surround, a Subwoofer can bring out the best features of Dolby Pro Logic Surround.

4. Amplifier connections

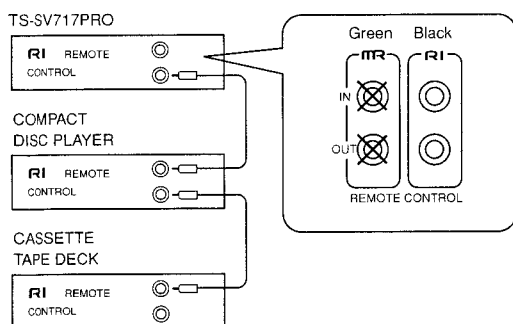
The TX-SV717PRO is equipped with a set of PRE OUT terminals which allow you to connect an external power amplifier. With a powerful power amp, you can play music at even higher volume levels than with the TX-SV717PRO alone. Connect the power amp to the PRE OUT terminals of the TX-SV717PRO, and connect the speakers to the power amp.



NOTES:

- No signals will be output from FRONT, REAR, CENTER and MONO PRE OUT when the SPEAKERS MAIN button is turned off.
- No signals will be output from MULTI SOURCE PRE OUT when the SPEAKERS REMOTE button is turned off.

5. Connections for remote control



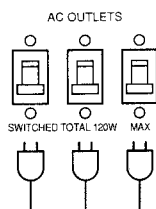
A cassette tape deck and compact disc player that have the ONKYO **RI** mark can be operated using the accessory remote control with the TX-SV717PRO.

Connect a remote control cable to the black jack with the **RI** mark. Never connect it to the green jack with the **MR** mark. Connect the remote control cable as shown left side to enable remote control operation of other components.

NOTES:

- To enable proper remote control operation, both the **RI** cable and the audio cables must be connected between units.
- The TX-SV717PRO remote control cannot be used to control ONKYO turntables.
- An **RI** remote control cable equipped with a 1/8" (3.5 mm) miniature 2 conductor phone plug is included with the TX-SV717PRO and with any other component with the **RI** mark.

6. AC Outlets



The shape and power loading capacity of the outlets differs depending on the region. The USA & Canadian model is shown.

USA & Canadian model: 1A 120 watts max.

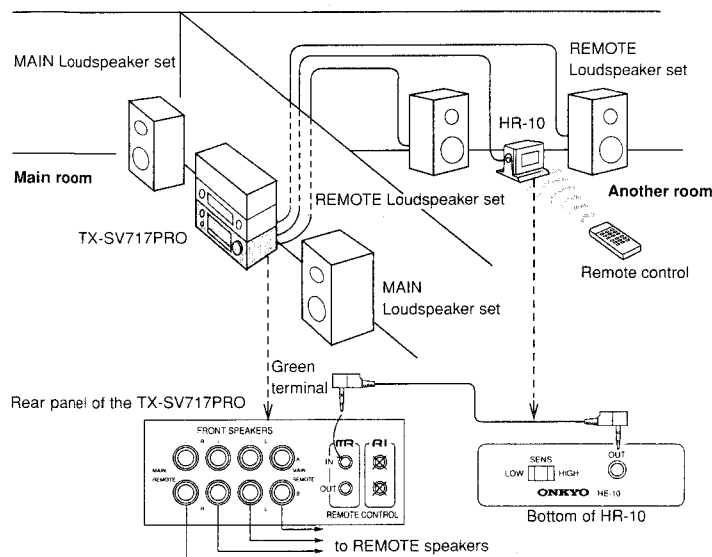
Worldwide model: 100 watts max.

SWITCHED

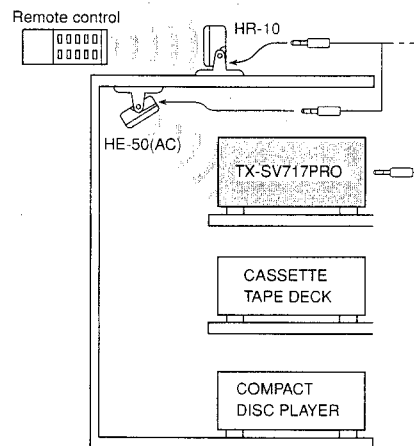
These outlets are switched on and off by the power button on the Front panel, and on the remote control.

7. Connections for Multiple Room Remote Control

When using only the HR-10 (optional) to control the TX-SV717PRO in the main room from another room, connect them as shown in below. In this case, both the ONKYO CD player and the cassette tape deck bearing the **RI** mark and connected to the TX-SV717PRO can be controlled.



To enable remote control operation when the TX-SV717PRO is mounted in a rack which will not permit infra-red beams to pass, mount the HR-10 somewhere outside the rack that will pick up the signals. If all components bear the **RI** mark, connect a **MR** cable from the HR-10 to the **MR** input on the TX-SV717PRO, and from there connect **RI** cables to the other components (see page 11). If the other components can receive infrared remote control signals, but do not have the **RI** mark, mount an HE-50(AC) inside the cabinet so that signals from it will reach the sensors in all components, and connect it to the HR-10 with an **MR** cable.



A connection example using the HR-10 (optional) and HE-50 (AC) (optional) to control components in the main room from another room is shown below.

If all the components can not be controlled by the HE-50 (AC) alone because they are installed at various places in the main room, use a Remote Emitter head HE-10 (optional). This also allows you to control components that are not ONKYO, or do not have an **RI** mark, as long as they can be controlled by infrared remote control. When using an HE-50(AC), the HE-50(AC) or HE-10 should also face the TX-SV717PRO.

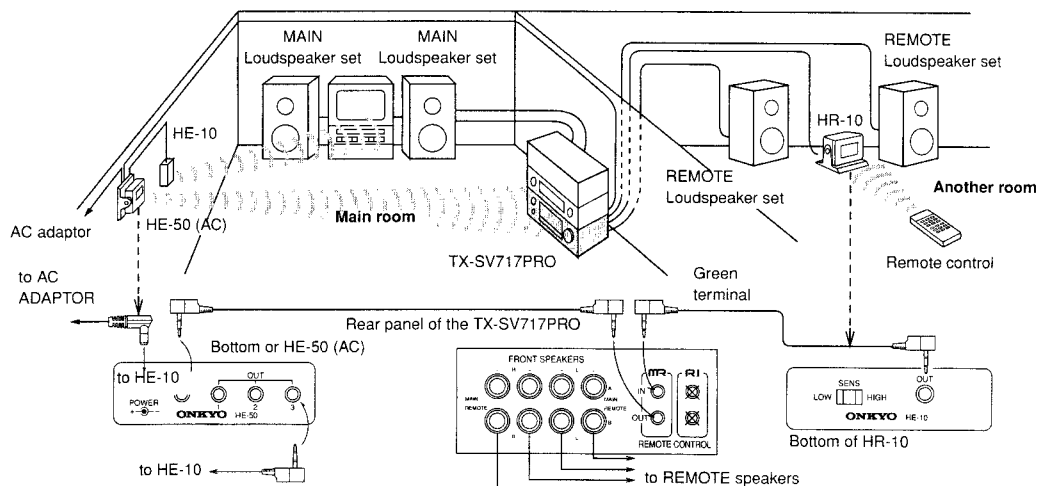
Note on **MR** cables

Any remote sensors and emitters (HR-10, HE-50(AC), HE-10) should be connected with low capacitance shielded 2-wire coaxial cables with 1/8" (3.5 mm diameter) mini-plug connectors. Maximum cable length is determined by the characteristics of the particular cables used but up to approximately 164' (50 m) lengths are generally practical.

Ready made cables complete with mini-plug connectors are available in the following lengths: 6-1/2' (2m) (HW-2), 98-7/16' (30m) (HW-30), and 164' (50m) (HW-50). (ONKYO cables may not be sold in some regions.)

Refer to the instruction manual which comes with the HR-10 when making these connections.

Sets of loudspeakers in another room should be connected to the TX-SV717PRO in the main room with low impedance cables.



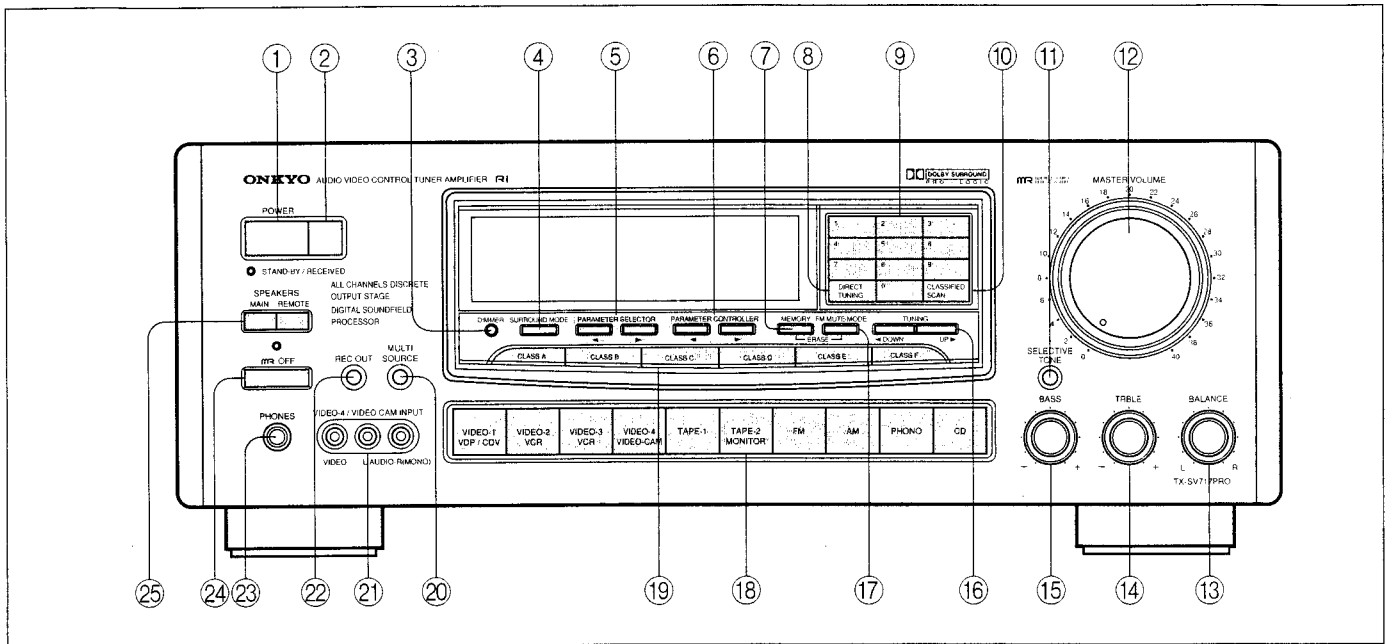
NOTES:

- Always unplug the AC power cords for the TX-SV717PRO and HE-50(AC) when connecting the **MR**.
- Insert the **MR** mini-plug into the green terminal on the Rear panel of the TX-SV717PRO.

Control positions and names

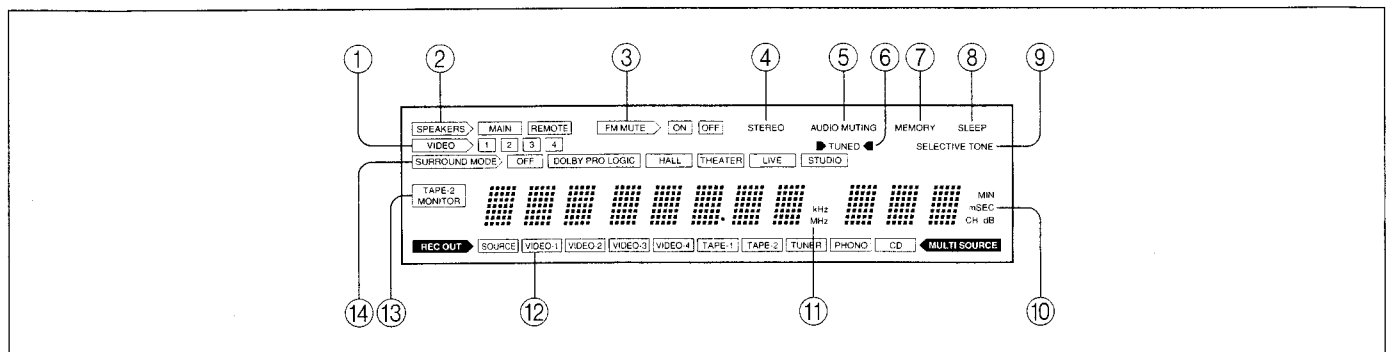
For more information about buttons or controls, turn to the page number listed in the brackets after each item.

Front panel



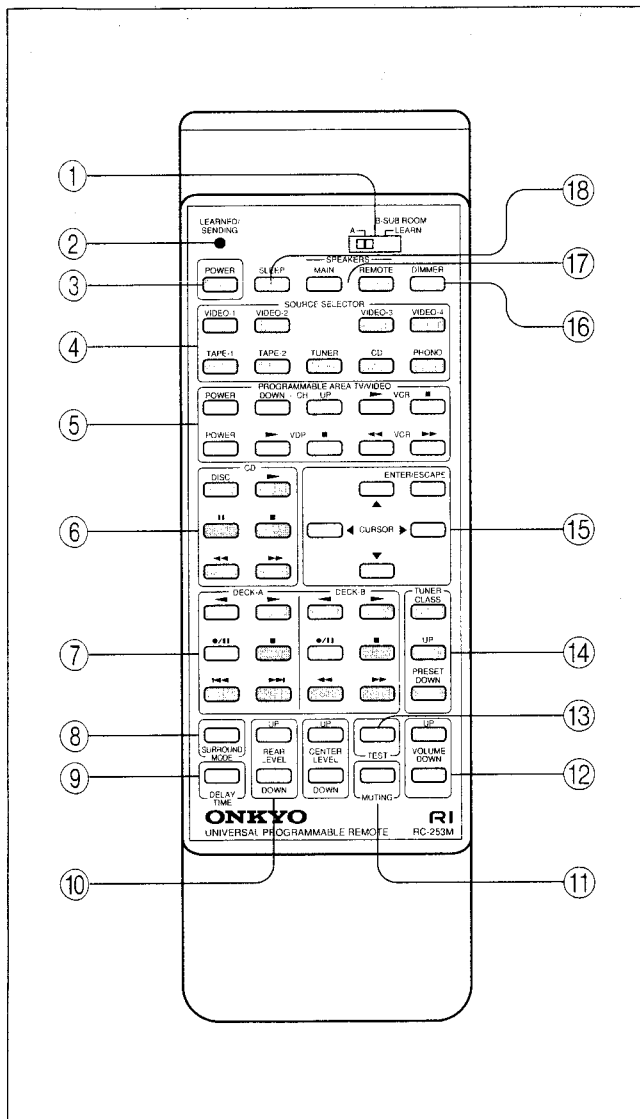
- ① Power button (POWER) [17]
- ② Remote control sensor
- ③ Dimmer button (DIMMER) [14]
- ④ Surround mode button (SURROUND MODE) [25, 28, 31, 33]
- ⑤ Parameter selector buttons (PARAMETER SELECTOR) [25, 28, 31, 33]
- ⑥ Parameter controller buttons (PARAMETER CONTROLLER) [25, 28, 31, 33]
- ⑦ Memory button (MEMORY) [20]
- ⑧ Direct access tuning button (DIRECT TUNING) [19]
- ⑨ Number buttons (1 to 9, 0)
- ⑩ Classified memory scan button (CLASSIFIED SCAN) [20]
- ⑪ Selective tone control button (SELECTIVE TONE) [18]
- ⑫ Volume control knob and indicator (MASTER VOLUME) [18]
- ⑬ Balance control knob (BALANCE) [18]
- ⑭ Treble control knob (TREBLE) [18]
- ⑮ Bass control knob (BASS) [18]
- ⑯ Tuning selector buttons (DOWN, UP) [19]
- ⑰ FM muting/mode button (FM MUTE/MODE) [19]
- ⑱ Input selector buttons
Audio selectors (CD, PHONO, FM, AM, TAPE-1, TAPE-2 MONITOR)
Video selectors (VIDEO-1 VDP/CDV, VIDEO-2 VCR, VIDEO-3 VCR, VIDEO-4 VIDEO CAM)
- ⑲ Classified memory buttons (CLASS-A to CLASS-F) [20]
- ⑳ Multi-source button (MULTI SOURCE) [34]
- ㉑ VIDEO-4 input jack (VIDEO-4/VIDEO CAM INPUT) [8]
- ㉒ Recording out button (REC OUT) [21-24]
- ㉓ Headphone jack (PHONES) [18]
- ㉔ MTR off button (MTR OFF) and indicator [34]
- ㉕ Speaker selector buttons (SPEAKERS MAIN/REMOTE) [17]

Display



- ① Video input selector indicators
- ② Speaker selector indicators
- ③ FM muting on/off indicator
- ④ FM stereo indicator
- ⑤ Audio muting indicator
- ⑥ Tuned indicator
- ⑦ Memory indicator
- ⑧ Sleep indicator
- ⑨ Selective tone control indicator
- ⑩ Multi function display
Preset station / sleep timer / multi-source volume level / delay time / center, rear volume level
- ⑪ Multi function display
Frequency / input selector
- ⑫ Recording out / multi-source indicators
- ⑬ Tape-2 monitor indicator
- ⑭ Surround mode indicators

Remote Control



① A/B/LEARN selector switch (A/B-SUBROOM/LEARN) [34, 35, 36]

This switch is used for three functions

A — When using the remote control in the main room. All of the buttons on the remote control can be used. (The PROGRAMMABLE AREA TV/VIDEO buttons can be used when memorizing remote control function of TV and Video equipment.)

B — When using the remote control in the subroom. Only the buttons that are underlined and have blue writing can be used. These buttons are shaded on the illustration above.

② Learned/sending indicator [35]

③ Power button (POWER)

④ Input selector buttons

(Video 1 to 4, PHONO, CD, TUNER, TAPE-1, TAPE-2)

⑤ PROGRAMMABLE AREA TV/VIDEO buttons [35]

You are able to use these buttons when memorizing remote control functions of TV and video equipment. For details, please refer to "Learning remote control codes using the 10 programmable buttons" on page 35.

⑥ CD operation buttons

These buttons are used to operate an ONKYO CD player with the **RI** mark.

⑦ Tape operation buttons (DECK-A, DECK-B)

These buttons control ONKYO double cassette tape decks that can be remote controlled. Use the DECK-B buttons to control single cassette tape decks with the **RI** mark.

⑧ Surround mode button

(SURROUND MODE) [25, 27, 28, 31, 33]

⑨ Delay time button (DELAY TIME) [30]

⑩ Rear level up/down buttons

(REAR LEVEL UP/DOWN) [30]

Center level up/down buttons
(CENTER LEVEL UP/DOWN)

⑪ Audio muting button (MUTING)

This button temporarily switches off the sound from the speakers or headphones by operating the TX-SV717PRO audio muting circuits. The audio muting indicator MUTING will flash. Pressing the button again or using the POWER button on the remote control to turn the power on will turn off the audio muting.

Audio muting using this button does not affect the sound of the multi-source (Remote speakers).

Press the SPEAKERS REMOTE to mute the sound of the multi-source.

⑫ Volume buttons (VOLUME UP/DOWN) [18, 34]

When adjusting the level of the Front Main, Center or Rear (Surround) speakers, set the A / B-SUB ROOM / LEARN switch to A, and use these buttons.

When adjusting the level of the Remote speakers (perhaps in another room), set the A / B-SUB ROOM / LEARN switch to B, and use these buttons.

⑬ Test tone button (TEST) [29]

Use buttons ⑧ - ⑪ when playing back in Surround mode.

⑭ Tuner operation buttons (TUNER) [19]

Class selector button (AM/FM) (CLASS)

Preset memory up/down buttons (PRESET UP/DOWN)

⑮ On-screen cursor buttons (CURSOR ▲, ▼, ◀, ▶) [15]

On-screen enter/escape buttons (ENTER/ESCAPE)

Use these buttons when operating using the On-screen display. For details, please refer to the explanations on page 15 and for the operation of each On-screen item.

⑯ DIMMER button (DIMMER)

This button can be used to change the brightness of the display. The display brightness changes in three steps (bright, medium, dim).

⑰ Speaker selector buttons

(SPEAKERS MAIN / REMOTE) [17, 34]

⑱ Sleep button (SLEEP)

Press to set the power-off timer. The sleep timer is a function which turns off the power to the system after a certain period from the time it is set. When this button is pressed, "90 MIN" is displayed for 5 seconds, and the power will go off 90 minutes later. Each time the button is pressed during 5 seconds, the timer setting changes by 10 minutes e.g. 80, 70, 60 ... While the sleep timer is operating, the SLEEP indicator is lit. If the sleep button is pressed during this time, the amount of time remaining on the timer is displayed, and if the button is pressed during that display, 10 minutes will be subtracted from that time.

If the button is pressed when the panel display shows 10 minutes or less, the sleep timer is cancelled, and the power is not turned off.

Using the On-screen display function (This function is done entirely with the remote control)

The On-screen display function is only available when an NTSC TV system is used. It will not work with other systems such as PAL, SECAM etc. The On-screen function uses a monitor TV connected to the TX-SV717PRO as a display, and is classified into two categories.

The Immediate display

This is the indication shown when the Input Selector, the volume of the Center/Rear/Front speakers or the Surround mode is changed.

The message will automatically disappear after 3 seconds. However, this does not apply when the unit is in the muting mode or the test tone is turned on.

The Menu screen

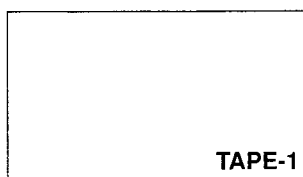
This is the display shown when the ENTER/ESCAPE on the remote control is pressed.

The menu screen can be operated by means of cursor buttons on the remote control. The monitor TV should be connected to the TX-SV717PRO to utilize this function.

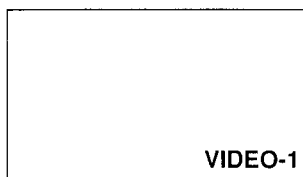
Immediate display

The following items will be shown on the display during the operation of the TX-SV717PRO main unit or remote control.

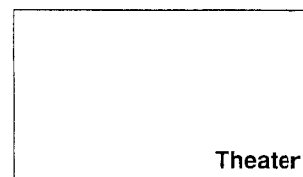
When the power of TX-SV717PRO is turned on.



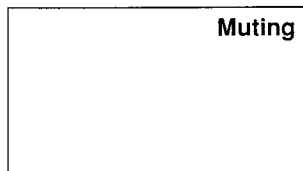
When the Input selector is changed.



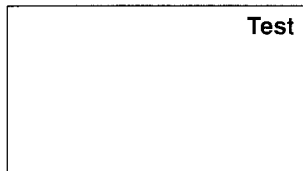
When the Surround mode is changed.



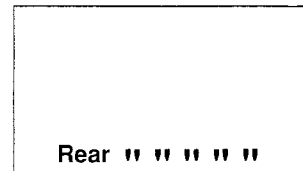
When the MUTING is pressed on the remote control.



When the TEST is pressed on the remote control.



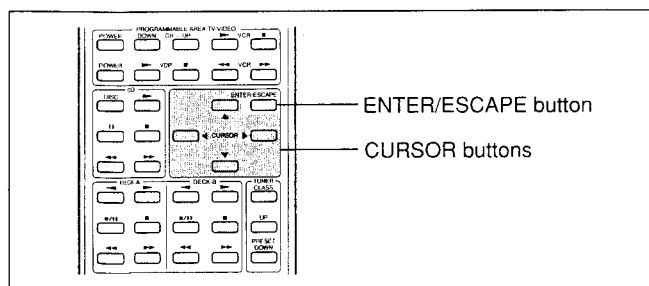
When pressing the CENTER UP/DOWN or REAR UP/DOWN on the remote control.



Using the menu screen

This operation is performed using the remote control.

These buttons are used to set the Input Selector, the Rec Selector, the Surround Setup and the Screen Setup.



ENTER/ESCAPE button

- Used to select the menu screen.

CURSOR buttons

- ▲ ▼: Used to move the cursor upward and downward on the screen.
- ◀ ▶: Used to move the cursor to the left and right on the screen, and to change the parameters or select the items on which the cursor is located.
- Holding down the button will change the parameter or move the cursor continuously.
- Cursor is black and white reversed characters on the screen.

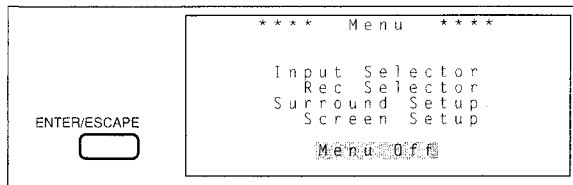
On-screen displays video images in the background when a video source is playing, and displays text on top of your selected colour on screen when nothing is being played back.

On-screen is output only to the MONITOR OUT terminal, not to the record terminal (out). Therefore, even if any On-screen is displayed on the monitor TV while recording, the On-screen display is not recorded.

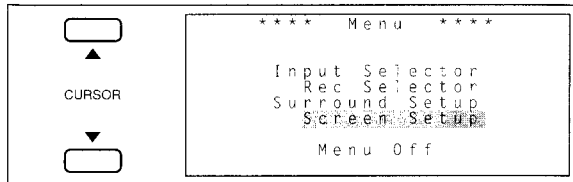
Menu items on each screen differ according to the Surround mode etc. Pressing the ◀ or ▶ buttons while the cursor is on some items may display a separate sub-screen.

Basic operation

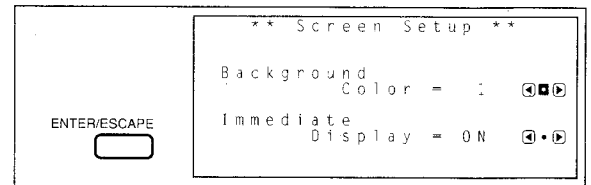
1. Press the ENTER/ESCAPE button.



2. Select the desired menu using the ▲ or ▼ CURSOR buttons.



3. Press the ENTER/ESCAPE button again.



4. Select the desired item using the ▲ or ▼ CURSOR buttons and change the parameters and conditions of the items using the ◀ or ▶ CURSOR buttons.

5. Press the ENTER/ESCAPE button after all the desired conditions have been input.

- The screen will display the main menu.

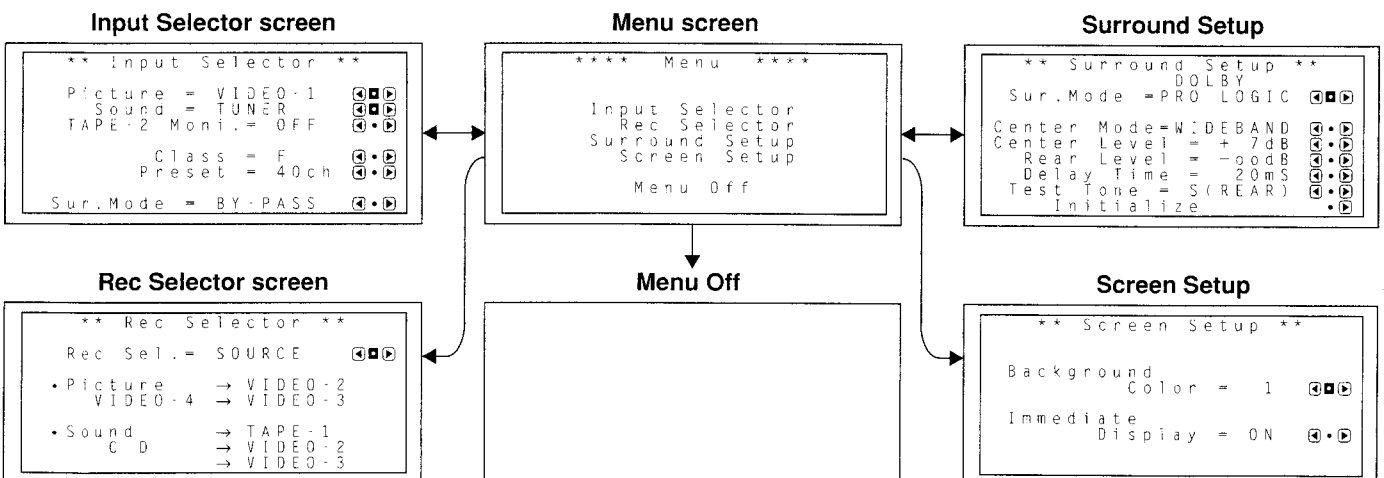
6. Use the ▲ or ▼ CURSOR buttons to select Menu Off. Press the ENTER/ESCAPE button again to turn the Menu screen off.

- Repeat steps 2 - 5 in order to use the other functions.

The screen changes as follows

Please refer to the page inside the parentheses for details about each screen.

When an item is selected with the CURSOR buttons ▲ or ▼ on the Surround Setup screen and the ◀ or ▶ CURSOR buttons are pressed, another item may disappear, or in some cases the cursor may skip over some items.



Screen Setup menu

When you select the Screen Setup menu, the following display appears on the On-screen display.

Background color

You can select the background color among 8 colors. Select the number of the corresponding color from 1 to 8. The numbers correspond to the following numbers in the table.

1	2	3	4	5	6	7	8
Blue	Magenta	Red	Green	Cyan	White	Yellow	Black

Please note that the above color descriptions are standard descriptions. The actual colors may differ depending on the tone and brightness adjustments of the projector or TV used.

When there is an image input signal, the input signal will be used for the background. Therefore the background color which you have selected will not be displayed.

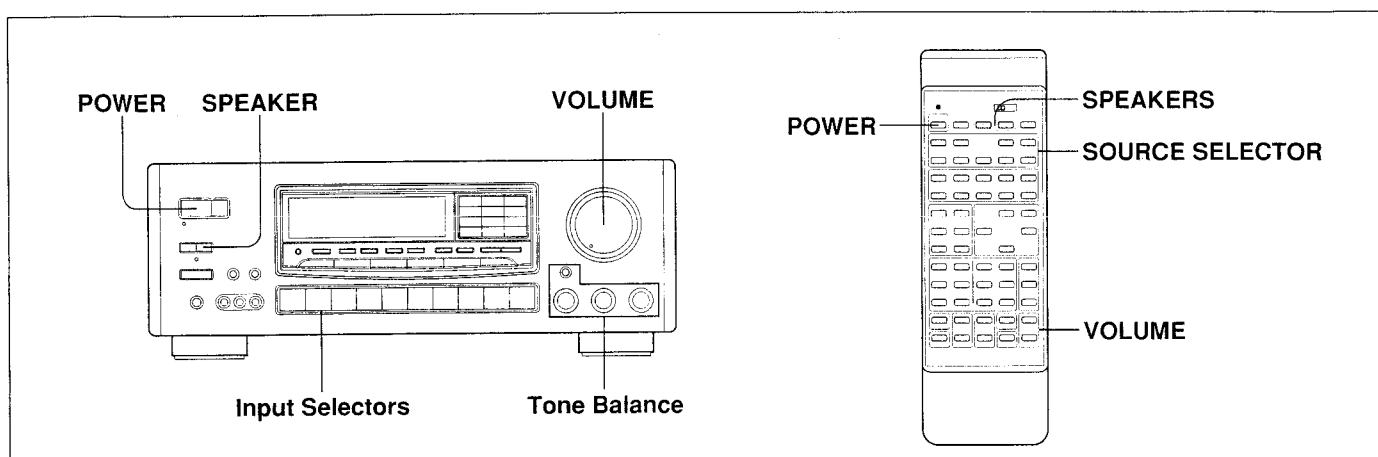
The lettering shown by the On-screen display will be white.

Immediate display

When Immediate display is set to ON, the Immediate display will be shown, and when it is set to OFF, the Immediate display will not be shown.

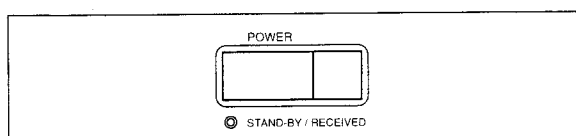
When Menu Off is chosen, the selected background color will not be displayed. This can be useful when you don't want to display the message, or when you want to check the Auto/Manual tuning for TV/BS devices connected to the Image input.

Listening to your favorite source

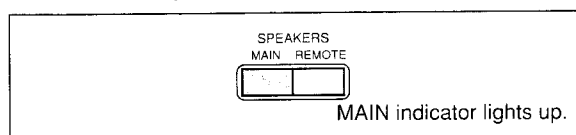


Operating the main unit

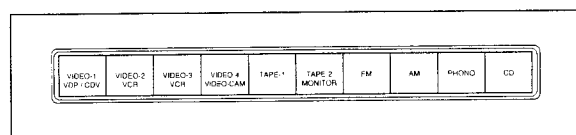
1. Press the **POWER** button to turn on the power.



2. Press the **MAIN** speaker selector button.



3. Press the desired **Input Selector** button.

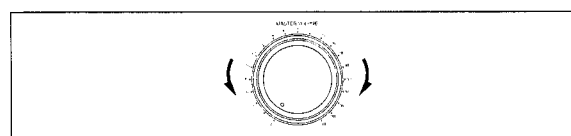


- The button pressed will be shown on the display. For FM or AM reception, the band and the frequency will also be shown.
- Confirm that the **TAPE-2 MONITOR** indicator is off when a source other than the **TAPE-2 MONITOR** has been selected. Also check the audio muting is off.
- Please refer to the operations from page 25 onward in order to play the selected source with Surround.

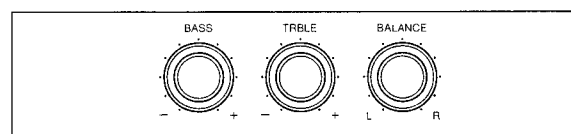
4. Start the selected input source playing.

- Follow the operating instructions of that unit.

5. Adjust the volume to appropriate level using the **MASTER VOLUME** knob.



6. Adjust the tone controls.



Explanation of the buttons

Power button (POWER) and STAND-BY/RECEIVED indicator

The **STAND-BY/RECEIVED** indicator comes on when the AC power cord for this unit has been inserted in an outlet. This indicates that the TX-SV717PRO is standing by for operation. Pressing the **POWER** button or remote control **POWER** button will turn the main unit on, and power will be supplied from the AC outlet to the rear panel. This indicator then goes off. The indicator also lights when a signal is received from the remote control.

Speaker selector buttons (SPEAKERS MAIN/REMOTE) and indicators

You can operate the Speaker selector from the Front panel or with the remote control. When **MAIN** and/or **REMOTE** is on, the **MAIN** or **REMOTE** **SPEAKER** indicators will light.

MAIN speakers button

The speakers connected to the **MAIN**, **CENTER**, and **REAR** speaker terminals can all be switched on or off at the same time.

REMOTE speakers button

This button is used to turn on or off the Remote speakers connected to the **REMOTE** speaker terminals. The source selected using **MULTI SOURCE** will be used for the Remote speakers (see on page 34).

When the multi-source is being used, you can use the **SPEAKERS REMOTE** button to turn the Remote speakers on or off.

Master volume control knob (MASTER VOLUME)

Use the master volume control knob to adjust the volume of the Front Main, Center and Rear (Surround) speakers, at the same time. Turn clockwise to increase the volume level. The volume can be adjusted manually and by the remote control's VOLUME UP/DOWN buttons. The master volume control knob rotates when the volume is adjusted by remote control. To adjust the volume level of the remote speakers, switch the A/B-SUBROOM/LEARN selector switch to the B-SUBROOM position and use the VOLUME UP/DOWN buttons on the remote control.

To adjust the volume while the Surround effects or the multi-source are being used, refer to each section:

Using the Surround effects (see page 29)

Using the multi-source (see page 34)

Tone and Balance Controls

Bass Control Knob (BASS)

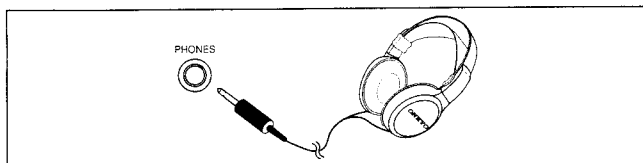
Adjust to strengthen or weaken bass response. (Not effective for the Center or Rear speakers, or multi-source signal.)

Treble Control Knob (TREBLE)

Adjust to strengthen or weaken treble response. (Not effective for the Center or Rear speakers, or multi source signal.)

TREBLE and BASS are effective only for the Front L and R speakers. The best results are obtained from DOLBY PRO-LOGIC SURROUND when the Center and Front L and R speakers contain the same amounts of mid and high frequencies. As the treble and bass controls do not affect the Center speaker, adjust the tone controls for the Front L and R speakers to match the sound given by the Center speaker. Because of this, we recommend the use of a good quality Center speaker.

Using headphones



Balance control knob (BALANCE)

Use the balance control knob (BALANCE) to adjust the relative volume levels of the left and right Main speaker systems. This adjusts the relative volume level of the Front Main speaker systems only.

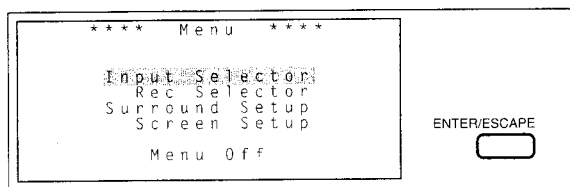
Selective tone control button (SELECTIVE TONE) and indicator

The selective tone control is used to clearly reproduce ultra low and high frequencies, and only affects the Front speakers. (Does not affect the Rear speakers or multi source signal.)

Stereo headphones with a standard binaural (stereo) plug can be connected to the phones jack. The sound heard through the headphones is the sound from the Front speakers, but may sound a little different to what was heard from the speakers (it may sound relatively far away).

When operating with the cursor on the screen using the remote control

1. Press the ENTER/ESCAPE button.



Picture

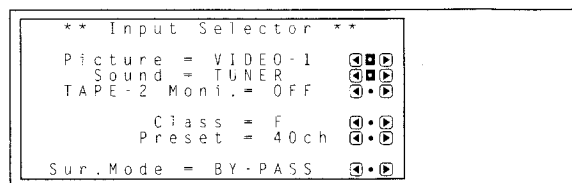
Indicates the input source of the picture. To change the input source, press the ◀ or ▶ CURSOR buttons while the cursor is located on Picture.

Sound

Indicates the input source of the sound. To change the input source, press the ◀ or ▶ CURSOR buttons while the cursor is located on Sound.

When you press the ◀ or ▶ CURSOR buttons while the cursors are on both Picture and Sound, you can change the input source of the Picture and Sound at the same time. However if you select other than VIDEO-1 to 4 for the input source, the image will be fixed to the most recently selected video source so that only the sound changes.

2. Move the cursor to Input Selector and press the ENTER/ESCAPE button.



TAPE-2 moni.

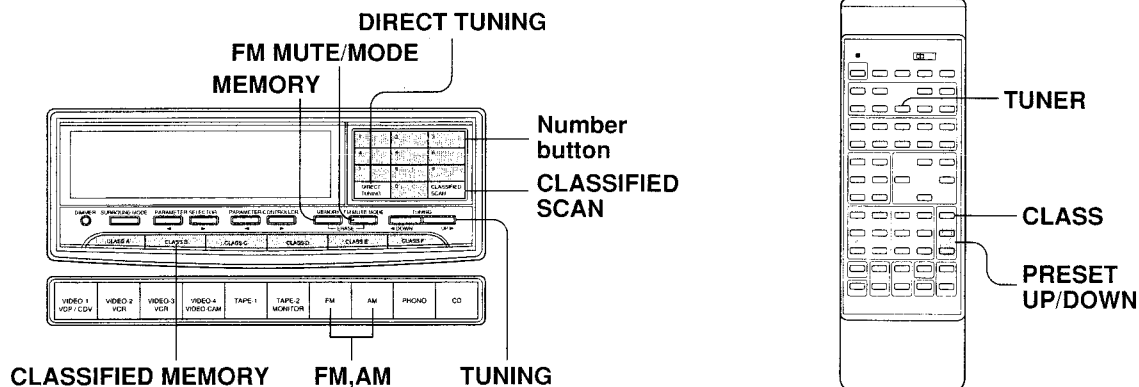
Indicates TAPE-2 MONITOR ON/OFF. When you press the ◀ or ▶ CURSOR buttons while the cursor is located on TAPE-2, the monitoring will be switched to ON/OFF.

Sur. Mode

Each input source can have a different Surround mode assigned to it, so the Surround mode position will be automatically set according to which input source of sound you choose. The current Surround mode will be shown on screen. Therefore each time you change the input source of the sound, the display will also be changed. To change the Surround mode assigned to the current input source, press the ◀ or ▶ CURSOR buttons while the cursor is located at Surround Mode. See page 26 for further details regarding the Surround mode.

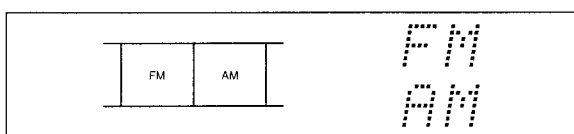
Using the tuner

Please make sure that the TAPE-2 MONITOR indicator is off and audio muting is off.

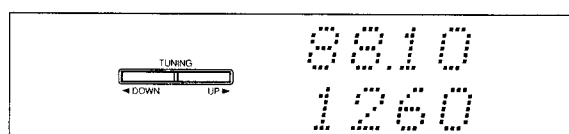


Tuning with the TUNING buttons

1. Press either the AM or FM Input Selector button.



2. Press one of the tuner selector buttons.

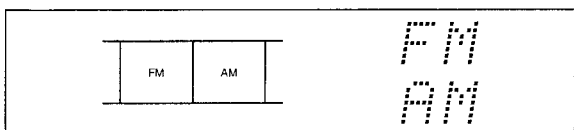


- When you press the UP or DOWN button, the frequency increases or decreases. The frequency is changed in 50kHz steps in FM and 10 kHz (or 9 kHz) in AM when the tuning selector button is pressed in single steps.
- If this button is held continuously for more than 0.5 seconds, the auto tuning mode is entered and the frequencies are scanned automatically. When a broadcast is received, scanning stops.

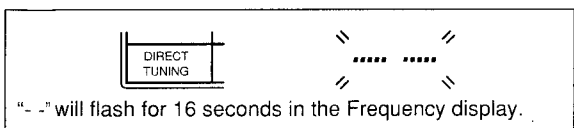
Tuning using the DIRECT TUNING button

1. Press either the AM or FM Input Selector button.

- If the frequency for the desired station is known, you can input the frequency number directly.

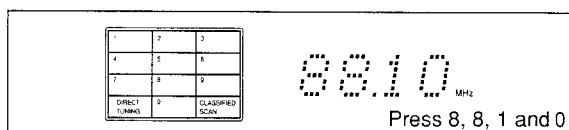


2. Press the DIRECT TUNING button.



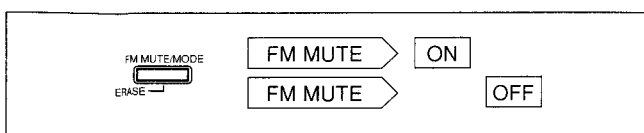
3. Input the desired frequency number by using the Number buttons while the cursors are flashing.

- For instance, if you wish to receive the station at 88.10MHz



- When receiving AM broadcasts with a 9kHz step (this depends on your region), you can enter the frequency directly. With 10kHz steps, entering a number for the 10kHz digit will set the 1kHz digit automatically to 0.
- If the desired frequency set in this operation does not exist, the frequency which is the nearest to, and lower than the desired frequency will be received. If the frequency set is not in the receivable frequency range, the frequency flashes for two seconds, and the previous frequency will be displayed.
- If a wrong frequency has been set, press the DIRECT TUNING button and start again.

Using the FM MUTING/MODE button



To listen to FM stereo broadcasts, turn the muting on. The ON indicator will light up. When a stereo broadcast is received, the STEREO indicator will light up.

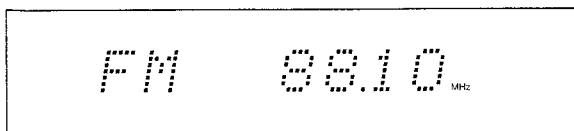
When the broadcast is too weak to be received in stereo, turn the muting off. The OFF indicator will light up. In the off setting, even weak stations can be received.

Classified memory function

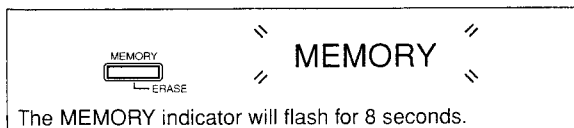
A total of 40 stations can be memorized in classes, from A to F. It is possible to memorize the same station in more than one class.

How to store FM 88.10 MHz into the memory in class B

1. Tune to 88.10 MHz on the FM band. (See section on "Using the tuner".)

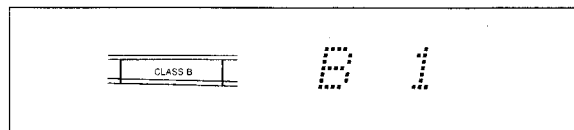


2. Press the MEMORY button.



3. Press the desired Classified memory button.

- The station is memorized in the selected class with the memory number which is the smallest of the unoccupied numbers in the class.
- If an attempt is made to memorize more than 40 stations, "FULL" will be displayed indicating that no more stations can be memorized.

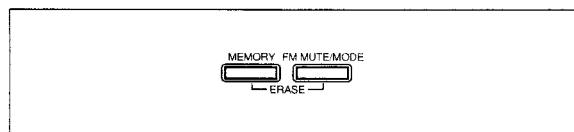


NOTE:

There are times when frequencies are left in the machines memory from the final testing done prior to shipment. If this is the case with your TX-SV717PRO, cancel any unnecessary preset stations according to "Canceling memorized stations" then memorize your own desired frequencies.

Canceling memorized stations

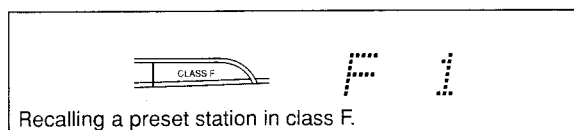
1. Retrieve the class number you wish to cancel. (See "Retrieving memorized stations").
 2. Press the FM MUTE/MODE button while holding down the MEMORY button.
- Another station can be memorized with the memory number which has been cancelled.



Retrieving memorized stations

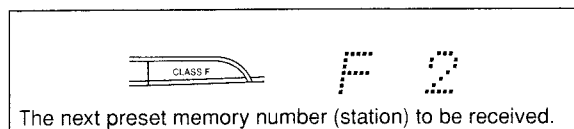
When operating with the main unit or remote control

1. Press the Classified memory button for the desired class.



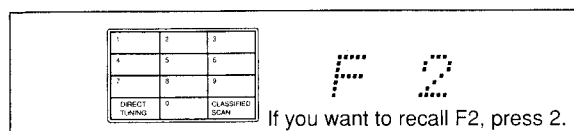
- There are several methods to proceed after the above operations are carried out. Use any of the following methods.

- a. Press the same Classified memory button again. This will select the next preset station in that class.



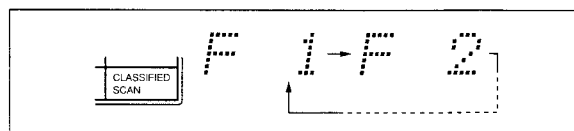
- b. Input the memory number you wish to receive by using the number buttons.

- Input two digits, immediately one after the other.
- If the number is not between 1 and 40, or does not have a memorized station, the number will flash for 2 seconds, then the previous number will be displayed.

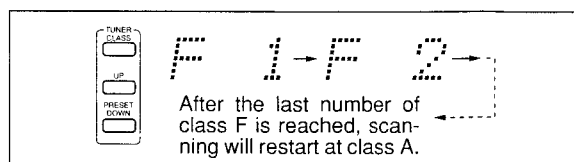


- c. Press the CLASSIFIED SCAN button.

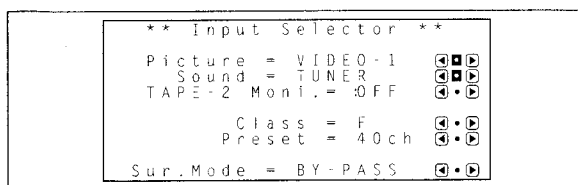
- Each preset station in the class will be displayed and played for 5 seconds. After the last memory number of the class is reached, scanning starts again from the first memory number of the class. Pressing the CLASSIFIED SCAN button again stops the scanning.



- d. Press either the PRESET UP or PRESET DOWN button on the remote control.



Operating with the On-screen cursor



NOTE:

If no preset channels are set in any class, the class and preset indications will not change, as there are no presets to select.

Audio/Video Recording

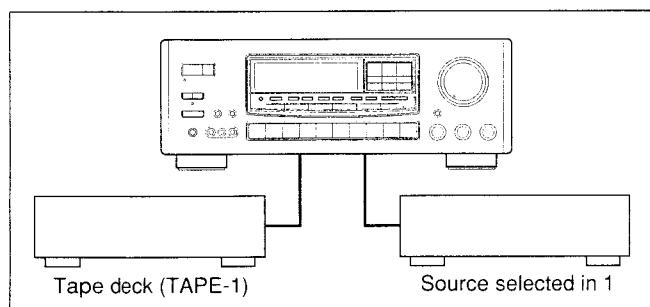
Tape recording

With the TX-SV717PRO you can perform recording while listening to the sound of another source through speakers or headphones. Make all connections between the tape deck and the unit as shown in the System Connections diagram (page 8).

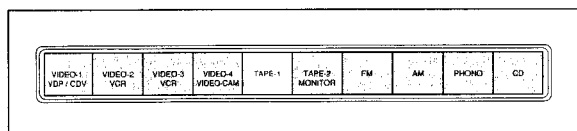
When recording a tape while the Multiple Room Remote Control is connected, turn the **MR** off (the **MR OFF** indicator will light) to disable remote control operation from other rooms.

Recording and dubbing to a tape deck connected to TAPE-1

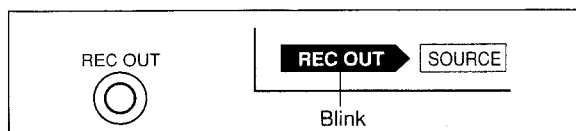
When recording the same source you are listening to



1. Press the Input Selector button to select the source to be recorded.
(Other than TAPE-1)



2. Press the REC OUT button.



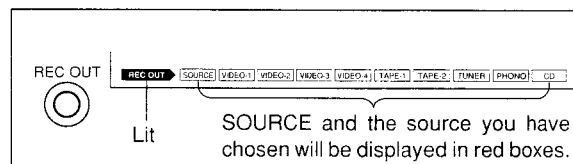
Class

Indicates the current class of the TUNER preset memory (A to F). Pressing the ◀ and ▶ CURSOR buttons will change the class. When the class is changed, the number shown below the new class will indicate the last channel that was selected for that class. If there are no channels set on that class at all, that class will be skipped entirely.

Preset

Indicates the channel preset for the selected class of the TUNER. Pressing the ◀ CURSOR button will change the channel downward, and pressing the ▶ CURSOR button will change the channel upward.

3. Press the REC OUT button again while the REC OUT indicator is flashing.

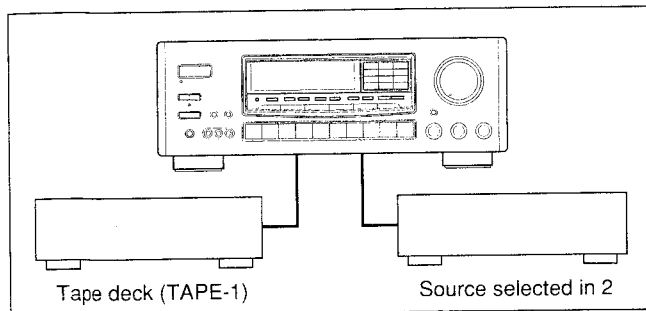


4. Start the device selected in step 1 while setting the tape deck connected to TAPE-1 to recording mode.

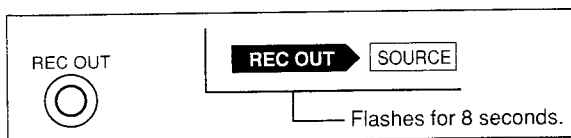
NOTES:

- Never change the positions of any controls (bass, treble, etc.) on this unit during recording and dubbing operations.
- Pressing the Input Selector button during recording will change the source being recorded.
- When the TAPE-2 MONITOR indicator is on, only TAPE-2 can be recorded and if the Input Selector is changed, the TAPE-2 MONITOR indicator will not change.

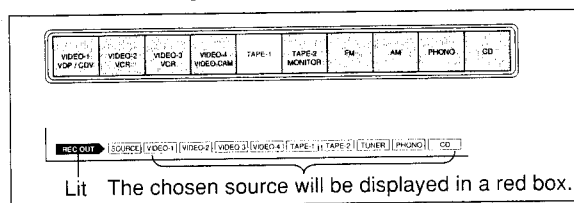
When recording a source different from the one you are listening to



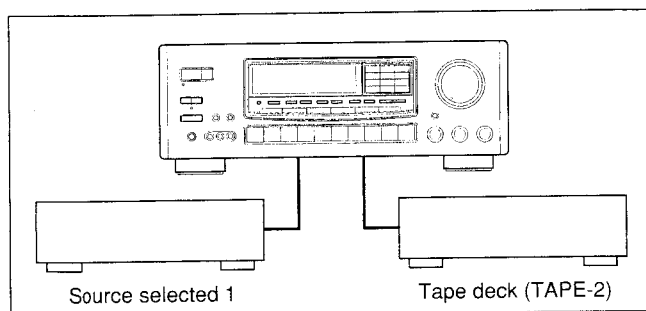
1. Press the REC OUT button.



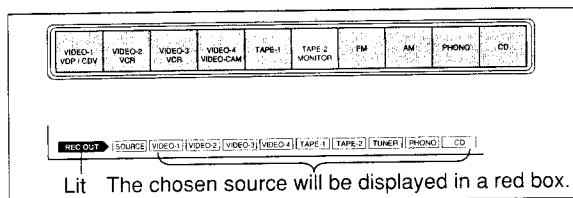
2. Press the Input Selector button for the source (other than TAPE-1) to be recorded, while the REC OUT indicator is flashing.



Recording and dubbing to a tape deck connected to TAPE-2



1. Press the Input Selector button of the source to be recorded.
(Other than TAPE-2)



Using a graphic equalizer

1. Connect the graphic equalizer to the TAPE-2 jacks on the rear panel.
2. If a second tape deck is used, connect it to the tape jacks on the graphic equalizer.
(See page 8)

3. Start the source device selected in step 2, and start recording on the tape deck connected to TAPE-1, or on any recording device connected to the VIDEO-2 or VIDEO-3 audio output jacks.

NOTES:

- The source you select to record will be output from the TAPE-1, VIDEO-2 and VIDEO-3 REC OUT jacks. The source you are listening to does not change.
- If you choose to record from AM or FM while listening to another source, the tuner's frequency and class displays will be shown for 5 seconds. During this time a new preset can be selected.

2. Start playing back the device selected in step 1, and start recording on the tape deck connected to TAPE-2.

NOTES:

- When the TAPE-2 MONITOR is off, any source signals can be monitored through the speakers or the headphones (this is normal operation). If tape deck 2 is 3-head however, you can monitor the recording directly off the tape by turning TAPE-2 MONITOR on. Refer to the tape deck instruction manuals for more details.
- Set the recording level using the controls on the tape deck used for recording. Never change the positions of any controls (bass, treble, etc.) on this unit during recording and dubbing operations.

3. Press the TAPE-2 MONITOR button.

- Follow the graphic equalizer operating instructions.
- To record an equalized signal, use tape deck 2 (connected to the equalizer) for recording.

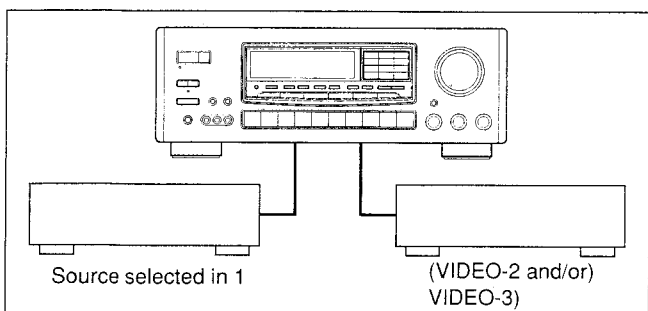
VCR recording

Data can be recorded from video-disc players, video camcorders, and video cassette recorders to video cassette recorders connected to VIDEO-2 and 3. Connect the VCR to VIDEO-2, and/or VIDEO-3.

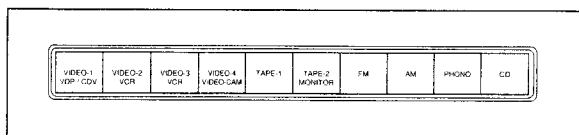
Refer to each instruction manual for information concerning video-disc players, video camcorders, video cassette recorders and VCR-monitor TV.

Recording to VIDEO-2 and VIDEO-3

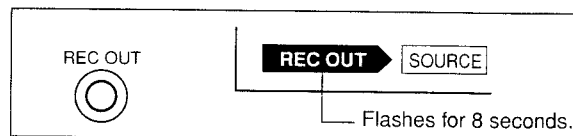
Recording the source being played back



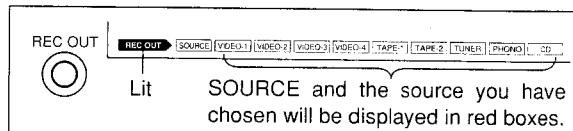
1. Select the source to be recorded with the Input Selector buttons.



2. Press the REC OUT button.

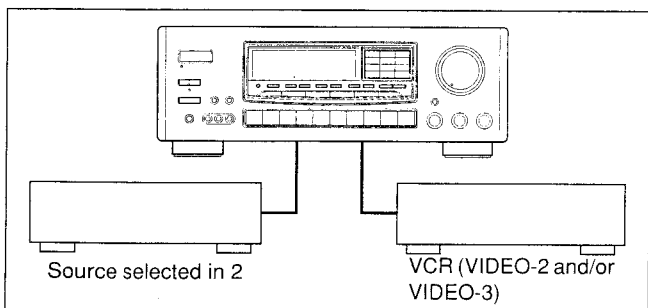


3. Press the REC OUT button again while the REC OUT indicator is flashing.

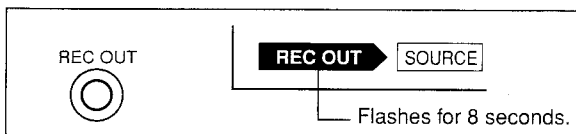


4. Start the source selected in step 1, and start recording on the VCR connected to VIDEO-2 and/or VIDEO-3.

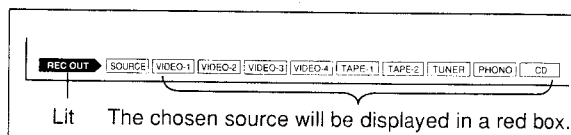
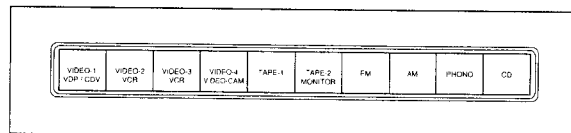
Recording a source different from the one being played back



1. Press the REC OUT button.



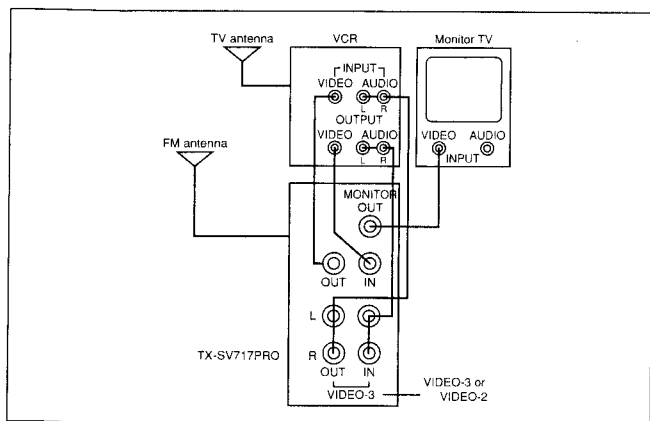
2. Press the Input Selector button of the source to be recorded while the REC OUT indicator is flashing.



3. Start the source selected in step 2, and start recording on the VCR connected to VIDEO-2 and/or VIDEO-3.

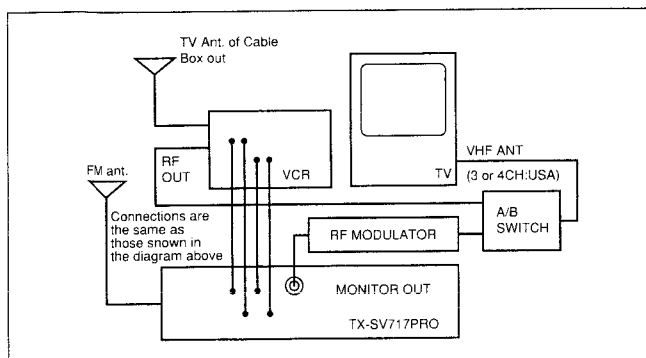
Playback and recording of TV picture and FM/CABLE TV sound

Recording of a TV broadcast and FM broadcast (simulcast) is possible when two VCRs are used.



1. Receive the TV broadcast using the VCR tuner.
2. Press the VIDEO-2 or -3 input selector to set the picture to VIDEO-2 or -3.
3. Press the FM Input Selector and tune in the FM simulcast using a preset button or the tuning selectors.
 - The picture will be sent to the monitor TV and the FM stereo sound to the speakers connected to the TX-SV717PRO.
4. To record the TV picture with FM sound, receive the TV broadcast using one VCR (connected to VIDEO-2 (or 3)) and begin recording on the other VCR (connected to VIDEO-3 (or 2)).
 - The program can be monitored during recording.

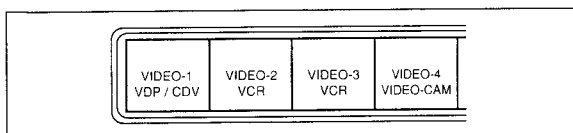
If the television has no video input terminal, make the connections as shown below



The A/B SWITCH may also be built-in to the RF modulator. Use an unused television channel (channel 3 or 4 output in the U.S.A. or the RF modulator channel in your country).

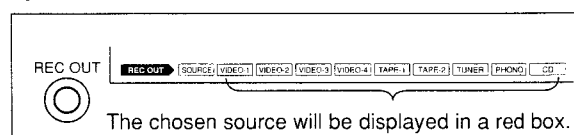
Mixing video and audio for VCR recording

1. Press the Input Selector button to select the VCR (VIDEO-1, 2, 3 or 4) that will be used to play the video.



2. Press the REC/PAUSE button on the VCR (VIDEO-2 or 3) that will be doing the recording.

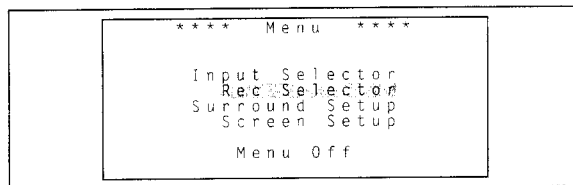
3. Press the REC OUT button then the Input Selector button (CD, PHONO, FM, AM, TAPE-1, or TAPE-2) that will provide the audio source.



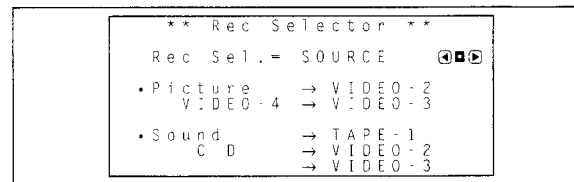
4. Start operation of the equipment.
 - The picture will be left as is. Only the audio will be changed. The picture will be recorded from the video source, and the sound from the audio source.

Choosing the recording source with the cursor on the screen (using the remote control)

1. Move the cursor to Rec Selector on the menu screen.



2. Press the ENTER/ESCAPE button.



Rec Sel

Indicates the Recording Selector. When you press the ◀ or ▶ CURSOR buttons, the Recording Source of the sound and the picture will change.

When you select SOURCE in Rec Sel, the source which you have selected on the Input Selector (the current source which you are listening to or playing back) will be routed to any devices connected to TAPE-1, VIDEO-2 or VIDEO-3. If you change the Input Selector, the source that is to be recorded will also be changed.

When you select any source other than SOURCE using , the selected source will be recorded to any devices connected to TAPE-1, VIDEO-2 or VIDEO-3, but in this case, the selected source will be fixed, and will not change when the Input Selector is changed. This function allows you to record a source other than the source to which you are currently listening, e.g. record an FM broadcast while listening to a CD.

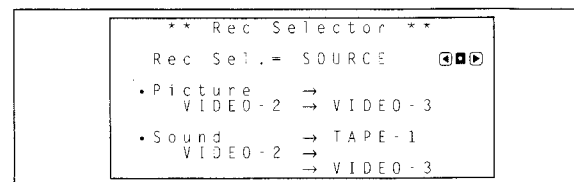
NOTE:

Although not shown on the screen, the TAPE-2 REC OUT jack always outputs sound according to the Input Selector.

Picture, Sound

Indicates which picture and sound sources are available to be recorded, and which devices are available to record onto.

Please note the following example:



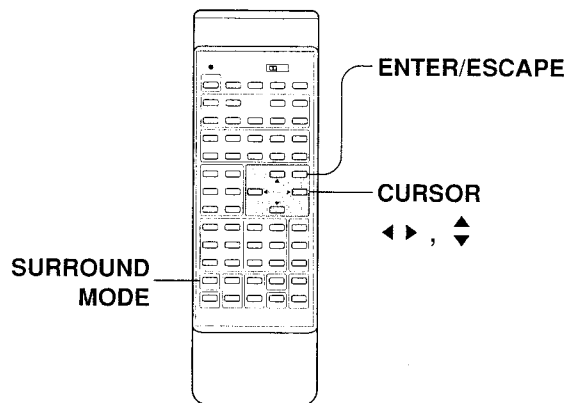
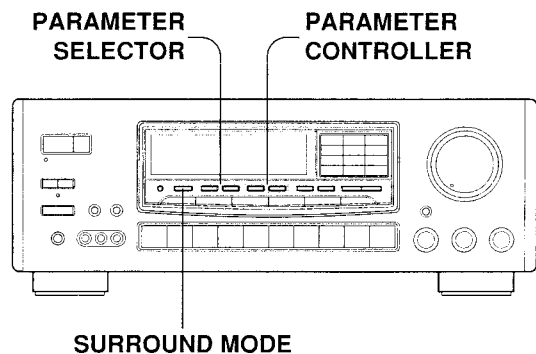
The recording source for the Picture is VIDEO-2, and this source can only be recorded to VIDEO-3.

The recording source for the sound is VIDEO-2, and this source can only be recorded to devices connected to TAPE-1 or VIDEO-3.

Basic operation of Surround play

Step 4 on page 17 "Listening to your favorite source" should be followed by the following basic operations.

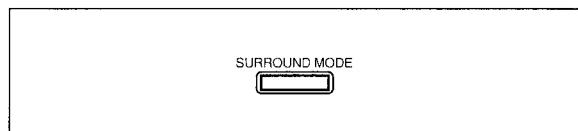
Although full details of each Surround mode will be explained on page 27, please be sure to understand the following basic operation first.



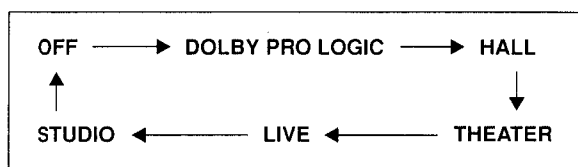
Operating Surround with the main unit

1. Press the SURROUND MODE button to select Surround mode.

(See page 27)

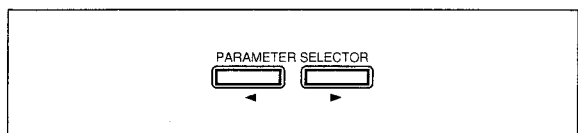


- Each time the SURROUND MODE button is pushed the mode changes as pictured and is shown in the display section.



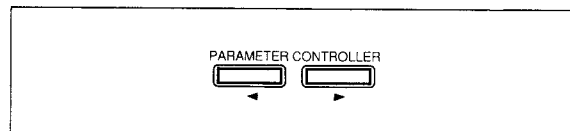
- Each mode has a number of details (parameters) which affect the sound of the mode.

2. Press the ◀ and ▶ PARAMETER SELECTOR buttons to select the parameter you want to change.



- Displayed in the display section for 5 seconds.
- If the display goes out, you can press the PARAMETER SELECTOR button again.
- The particular parameters change depending on which Surround mode you are in. Refer to the table on page 26.

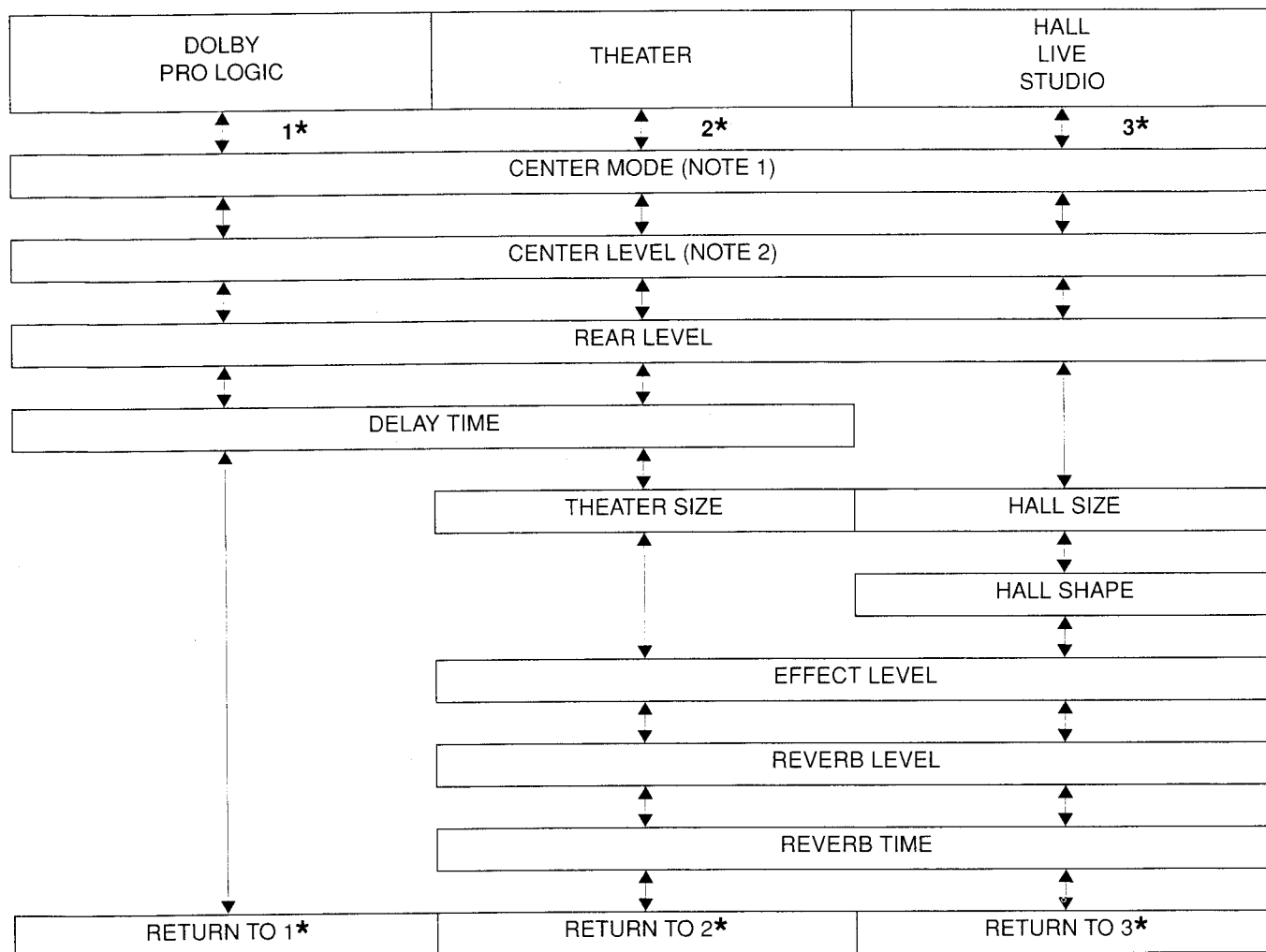
3. Use the ◀ and ▶ PARAMETER CONTROLLER buttons to select a value for the parameter.



- Adjust the parameter by repeating steps 2 and 3, and referring to the parameter selector list.
- The adjusted parameter is stored in the memory for the Surround mode you set it in.
- Use the SURROUND MODE button to select OFF (BY-PASS) when you are not playing in Surround.
- When using the Multi source, the Surround mode will be turned off.

The Parameter selector

This chart shows how the display changes when the PARAMETER SELECTOR buttons are pressed. Pressing the ◀ PARAMETER SELECTOR button goes to the upper items and pressing the ▶ button goes to the lower items. Pressing the PARAMETER CONTROLLER button in each display can change the value and condition of which ever parameter is displayed. The numbers in the parentheses refer to page numbers in which detailed instructions for the adjustment method are given.

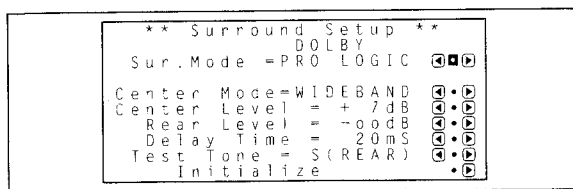


NOTES:

- The Center mode does not have an independent value and position in each Surround mode. However, each of the other items have independent value and position in each Surround mode. (Note 1)
- This item is not available when Center Mode is set to PHANTOM. (Note 2)

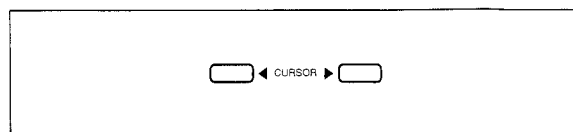
Operating Surround with the cursor on the screen

1. Press the ENTER/ESCAPE button to enter the menu screen.
2. Press the ▲ or ▼ CURSOR buttons to move the cursor to Surround Setup.
3. Press the ENTER/ESCAPE button.
 - The screen for changing the Surround setup will open.



4. Press the ◀ or ▶ CURSOR buttons to select Sur. Mode.

- If you have selected the Surround mode before, the SURROUND MODE screen will open.



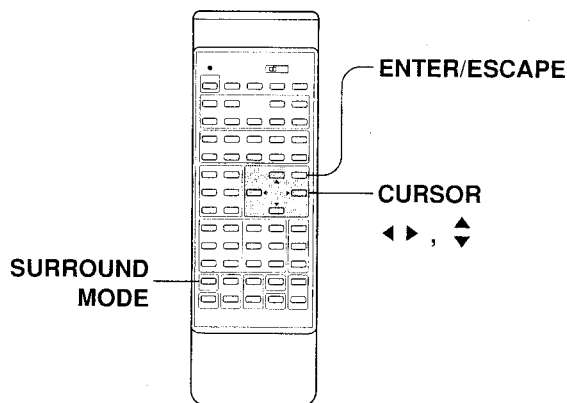
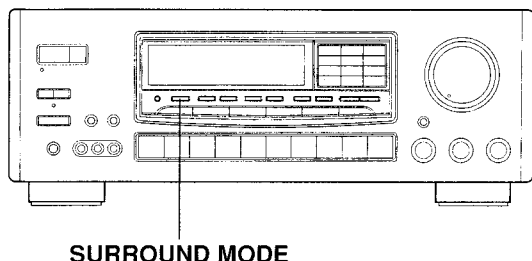
5. Press the ▲ or ▼ CURSOR buttons to select the item you wish to change, and the ◀ and ▶ CURSOR buttons to change the value.

- Some items allow you to select values visually by looking at the small screen.

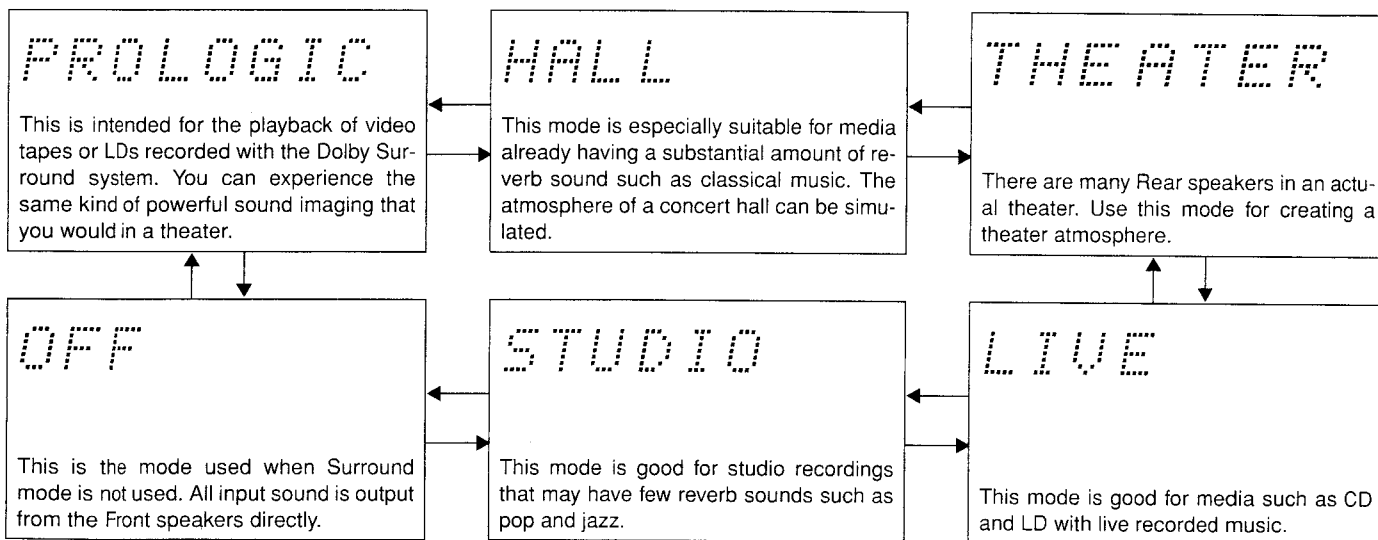
Use of Surround mode

This unit is provided with 5 kinds of Surround modes.

Select a mode by pressing the SURROUND MODE button. This will rotate one step at a time through the Surround modes each time this button is pressed. Make your choice of modes depending on the type of music you are listening to, the media used, and your personal preference.

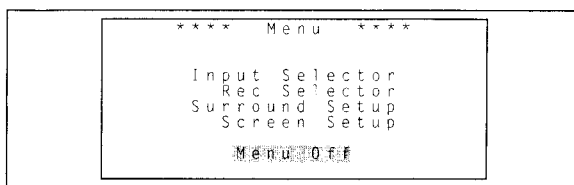


Surround mode

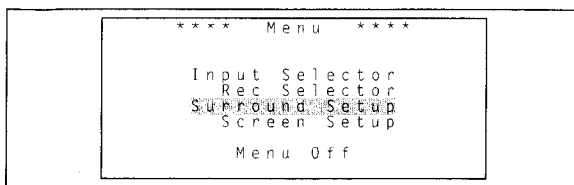


When operating with the cursor buttons on the screen

1. Press the ENTER/ESCAPE button to call the menu screen.

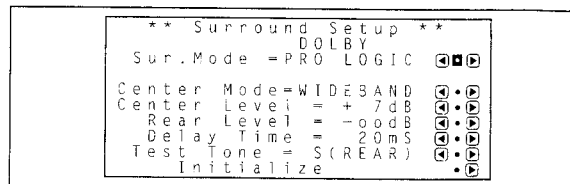


2. Press the ▲ or ▼ CURSOR buttons to set the cursor to Surround Setup.

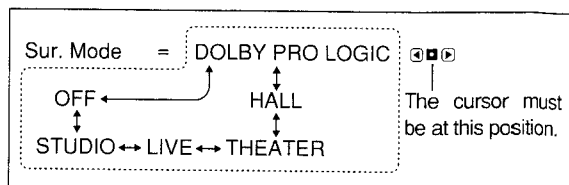


3. Press the ENTER/ESCAPE button.

- The screen for selecting Surround Setup will open.



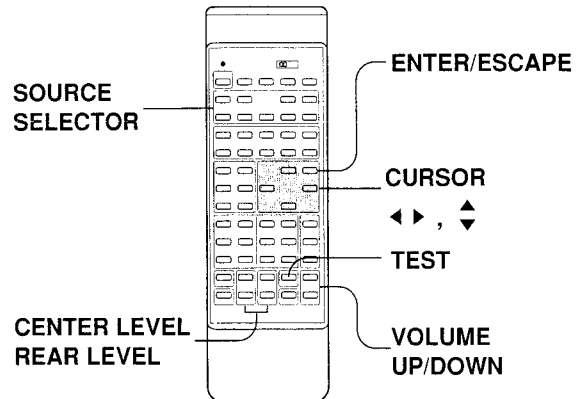
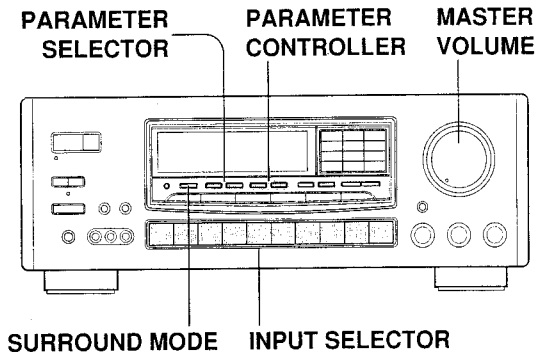
4. Press the ◀ or ▶ CURSOR buttons to change the Surround mode.



5. Pressing the ENTER/ESCAPE button while the cursor is placed at Sur. mode will return you to the menu screen.

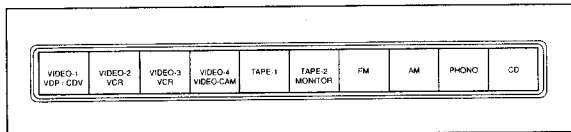
Adjusting the Dolby Pro Logic Surround

When using video cassette tapes or video discs with the Dolby Stereo or Dolby Surround trademark, you can achieve the same kind of sound in your room that can be experienced in a movie theater.
Refer to page 25 for the basic operations.

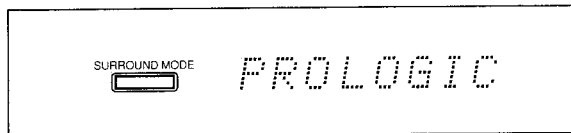


Operating with the main unit

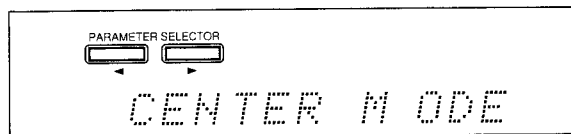
1. Select a source encoded with Dolby Surround.



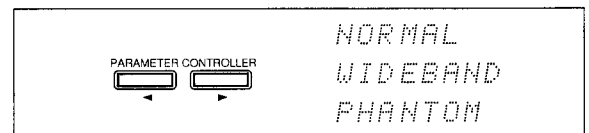
2. Use the SURROUND MODE button to select the Dolby Pro Logic Surround mode.



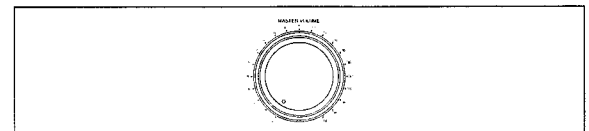
3. Use the ◀ and ▶ PARAMETER SELECTOR buttons to select CENTER MODE. (Explanation 1, page 29)



4. Use the ◀ and ▶ PARAMETER CONTROLLER buttons to select either NORMAL, WIDE BAND or PHANTOM.



5. Next, use the MASTER VOLUME to set the volume to the desired listening position.



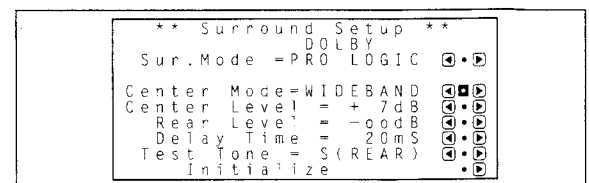
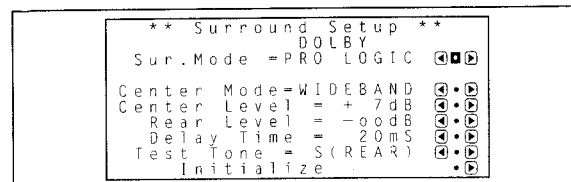
6. Turn the test tone on. (Explanation 2, page 29)
 - Use the TEST button on the remote control or the cursor buttons on the screen to operate the test tone.
7. Adjust the Center level, and Rear level. (Explanation 2, page 30)
8. Turn off the test tone.
9. Adjust the delay time. (Explanation 3, page 30)

NOTE:

Carry out the Initialize function to initialize the set value for each level. (Explanation 4, page 30)

Adjusting Dolby Pro Logic Surround with the cursor on the screen

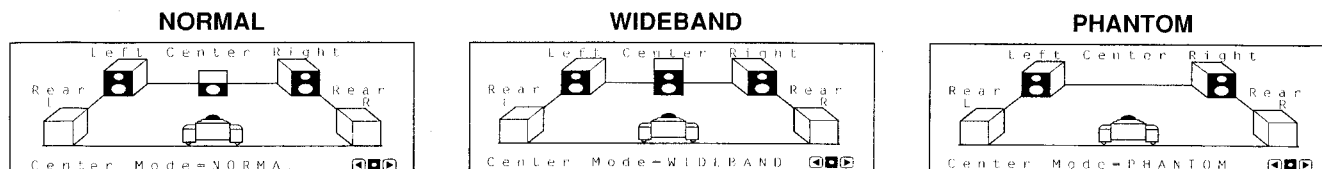
1. Press the ENTER/ESCAPE button to bring up the menu screen.
2. Use the ▲ and ▼ CURSOR buttons to move the cursor to Surround Setup and press the ENTER/ESCAPE button.



3. To set the Center mode, move the cursor to Center Mode and press the ◀ and ▶ CURSOR buttons. (Explanation 1, page 29)
4. Adjust the Center level and the Rear level using the test tone, then set the delay time.
 - See "Operating with the main unit" step 6-10 regarding the test tone.

Explanation 1: Center mode

Because the Center speaker plays such an important part in Dolby Pro Logic Surround, three different modes are available for it, depending on its size:



NORMAL: Use this setting when using a Center speaker smaller than the L and R stereo speakers. The center speaker will not be sent frequencies below 100 Hz, and these will be split between the Front L and R speakers.

WIDE BAND: Use this setting when using a Center speaker similar to the L and R stereo speakers in size and power. The center speaker will receive the full frequency range.

PHANTOM: Use this setting when a Center speaker is not present. The sound that would have been sent to the Center speaker will be split between the Front L and R speakers, producing a similar result.

NOTES:

- When you have finished Center Mode setting, press the ENTER/ESCAPE button or the ▲ or ▼ CURSOR buttons. The screen will return to the Screen Setup display screen.
- The Center Mode cannot be set independently for each Surround mode, so the settings you make here will affect every Surround mode.

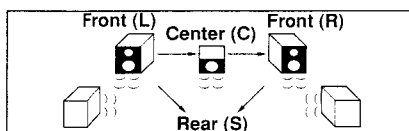
Explanation 2: Adjusting the Rear and Center level using the test tone function

The test tone function

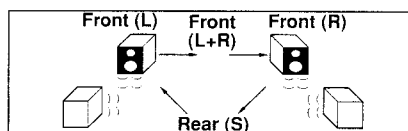
No matter what kind of program sources are used, the Front, Rear and Center speakers should all be set to the same volume level for the Surround effect to work effectively. The test tone is provided to help make this adjustment. Pink noise is produced by each speaker in turn so you can match the volume levels of the Front, Center and Rear speakers. As the relative volumes of the speakers depend on your listening position, we recommend you make this adjustment with the remote control from the position you usually listen from.

The test tone sequence (set by setting the Test Tone to AUTO on the On-screen display or pressing the TEST button on the remote control)

When the Center Mode is set to NORMAL or WIDEBAND

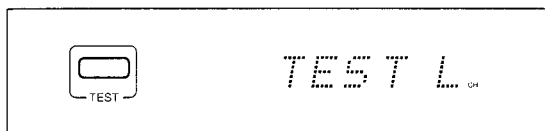


When the Center Mode is set to PHANTOM



Operating the test tone using the TEST button on the remote control

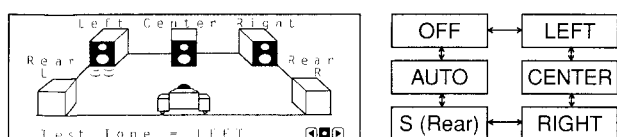
1. Press the TEST button to begin the test tone sequence.



2. From your listening position, adjust the relative volume of the test tone from the different speakers.

- Refer to the diagrams below for the speaker order.
 - Use the remote control CENTER LEVEL UP/DOWN buttons to adjust the volume of the center speaker, and the REAR LEVEL UP/DOWN buttons to adjust the volume of the rear speakers (see the next page).
 - Set the front, rear, and center speakers to the same volume.
3. Press the TEST button once more to turn off the test tone sequence.
- The test tone will automatically turn itself off after 2 minutes.

Operating the test tone using the cursor on the screen



NOTE:

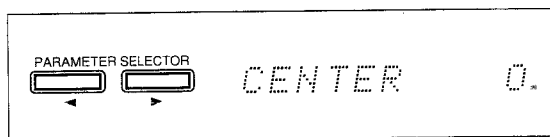
When the test tone is on, if you press any button on the main unit or the remote control other than MASTER VOLUME, CENTER LEVEL, REAR LEVEL, SPEAKERS MAIN, MUTING or TEST, the test tone will turn off.

1. Place the cursor at Test Tone on the Surround setup screen, then use the ◀ and ▶ CURSOR to select the various options.
2. Each time the ◀ and ▶ CURSOR buttons are pressed, the display changes as shown in left, and the test tone will be output from the selected speaker.

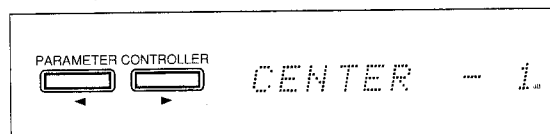
Adjusting the Center level and Rear level from the main unit

1. Use the ◀ and ▶ PARAMETER SELECTOR buttons to select the various options.

- The selected item is displayed, the letters scroll and the current value will be displayed for 5 seconds.

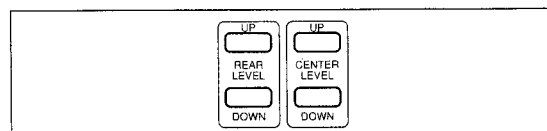


2. Press the ◀ or ▶ PARAMETER CONTROLLER buttons to adjust the level.



- The adjustment can be made from -00dB (minimum) -60, -40, -30, -25, -20, -18, --- -10, --- 0, +1, +2, --- up to +12dB (maximum).
- When the Center Mode is set to PHANTOM, you cannot adjust the Center level here.

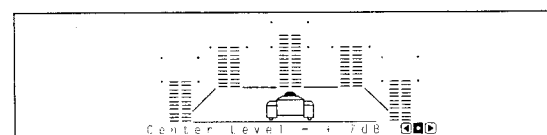
When operating with the remote control



- When you use the CENTRE LEVEL UP and DOWN, and REAR LEVEL UP and DOWN buttons on the remote control, an indication (the Immediate display) will appear in the lower part of the screen.

When using the cursor on the screen

- Use the ▲ or ▼ CURSOR buttons to select Center Level or Rear Level on the Surround Setup screen.
- Use the ◀ or ▶ CURSOR buttons to adjust the Center or Rear level.

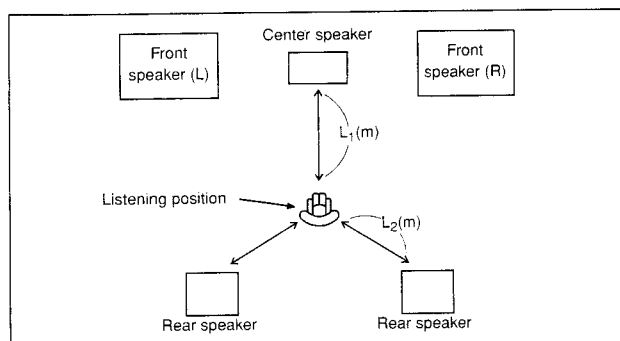


- Press the ENTER/ESCAPE button or the ▲ or ▼ CURSOR buttons to return to the Surround Setup screen.

Explanation 3: Delay time

By adjusting the delay time, and carefully adjusting master volume level, Center volume level and Rear volume level, the apparent acoustic size of your listening room can be enlarged or reduced. Adjustable delay time allows you to tailor the acoustic size of your listening environment to the sonic characteristics of the audio program, because a short delay in the audio signal coming from the Rear speakers gives the impression that it had to travel a longer distance to reach the listener, hence a larger room or hall.

Dolby Surround delay time is specified at 20 msec. It is recommended that initial Dolby Surround delay be set at 20 msec, but adjustment from 15 to 30 msec is possible.



To calculate optimum settings for your room, measure the distances L1 and L2 as shown above, then work out the delay times from the following table.

L1 - L2 = 1: 15 to 23msec	L1 - L2 = 4: 22 to 30msec
L1 - L2 = 2: 16 to 26msec	L1 - L2 = 5: 25 to 30msec
L1 - L2 = 3: 19 to 29msec	

When operating with the main unit

1. Use the ◀ and ▶ PARAMETER SELECTOR buttons to select DELAY.

- The current set value, "DELAY 20" msec for example, is shown for 5 seconds on the display.

2. Use the ◀ and ▶ PARAMETER CONTROLLER buttons to adjust the delay time.

- 15↔16↔.....↔29↔30 msec

When using the cursor on the screen

Select Delay Time on the Surround Setup screen and make an adjustment with the ◀ or ▶ CURSOR buttons.

When operating with the DELAY TIME button on the remote control

The value is increased each time the DELAY TIME button is pushed.

→15→16→.....→29→30 msec

Explanation 4: Initialization

When using the cursor on the screen

1. Position the cursor on Initialize on the Surround Setup screen with the ▲ or ▼ CURSOR buttons.

2. Press the ▶ CURSOR button.

- Yes? is displayed.

3. Pressing the ▶ CURSOR button again carries out the initialization.

- The unit is shipped in an initialized state.

When initialization is carried out, each level is initialized as follows.

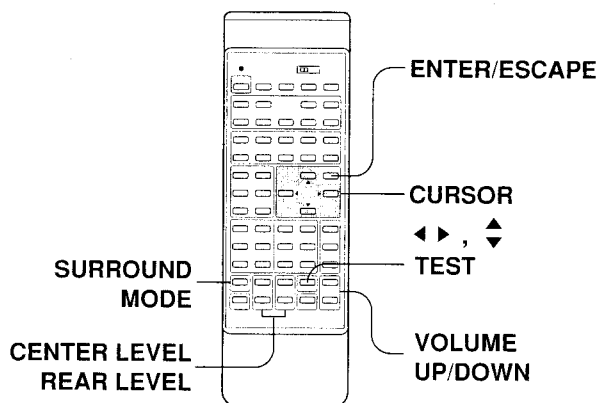
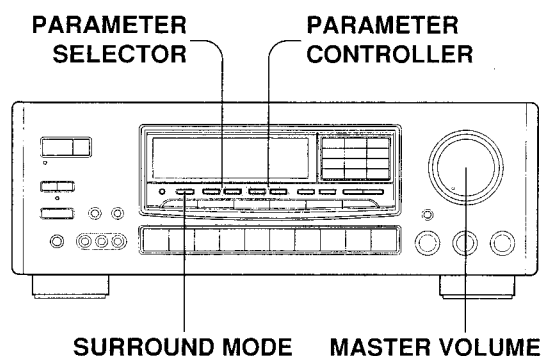
Center Level = 0 dB

Rear Level = 0 dB

Delay Time = 20 msec

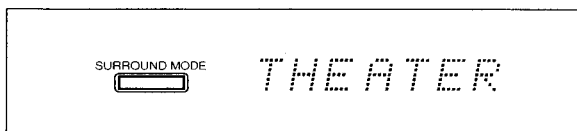
Adjusting the Theater Surround

You can achieve the same kind of sound in your room that you experience in a movie theater by adding a DSP sound field effect. (DSP: Digital Signal Processor — refer to page 4 for details.) Refer to page 25 for basic Surround sound operation.



When operating with the main unit

1. Use the ◀ and ▶ SURROUND MODE buttons to select THEATER.



2. Use the ◀ and ▶ PARAMETER SELECTOR buttons to select CENTER MODE.

(Explanation 1, page 29)

- If the Center mode was selected while in another Surround mode, there is no need to change it.

3. Use the ◀ and ▶ PARAMETER CONTROLLER buttons to select either NORMAL, WIDEBAND, or PHANTOM.

4. Next, use the MASTER VOLUME to set the volume to the desired listening position.

5. Turn the test tone on.

(Explanation 2, page 29)

6. Adjust the Center and Rear Levels.

7. Turn off the Test Tone.

8. Adjust the Delay Time.

(Explanation 3, page 30)

9. Select Theater Size.

(Explanation 5, page 32)

10. Adjust the Effect Level.

(Explanation 6, page 32)

11. Adjust the Reverb Level.

(Explanation 6, page 32)

12. Adjust the Reverb Time.

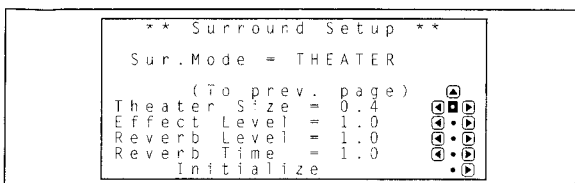
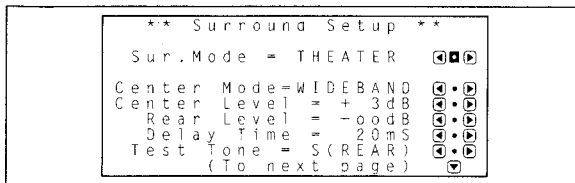
(Explanation 6, page 32)

NOTE:

To return all of the above settings to their original states, you can initialize them. (Explanation 7, page 32)

When using the cursor on the screen

Select THEATER in the Surround mode on the Surround Setup screen.



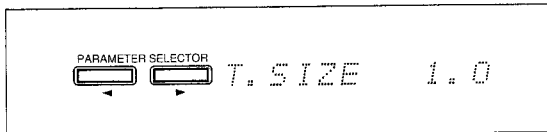
- The complete contents cannot be displayed on screen at one time.
- Position the cursor on To next page (To prev. page), to automatically transfer to the next (or previous) page.

Explanation 5: Theater size

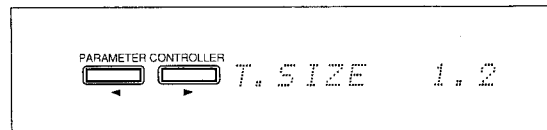
Theater mode simulates the atmosphere of a small or a large sized movie theater. Seven theater size can be selected, from 0.4 to 1.6. This figure gives the ratio of breadth to length.

When operating with the main unit

1. Use the ◀ or ▶ PARAMETER SELECTOR buttons to select theater size.

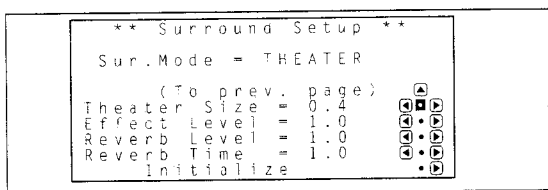


2. Press the ◀ or ▶ PARAMETER CONTROLLER buttons to alter the theater size.

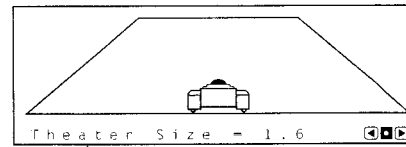
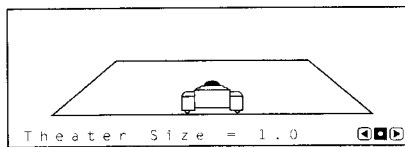
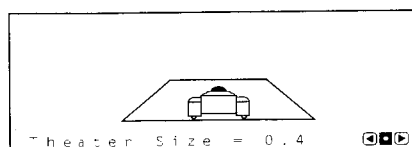


When using the cursor on the screen

1. Place the cursor on Theater Size on the Surround Setup screen and press the ◀ or ▶ CURSOR buttons.

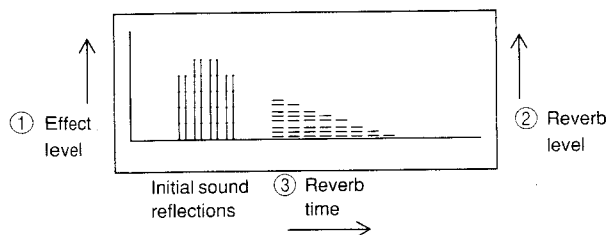


2. Select the theater size using the ◀ and ▶ CURSOR buttons.



0.6 ↔ 0.8 1.2 ↔ 1.4

Explanation 6: Effect level, Reverb level and Reverb time



① Effect level

This parameter adjusts the initial reflection level and the reverb level at the same time. Adjust the level by using the ◀ and ▶ CURSOR buttons to after positioning the cursor on Effect Level on the Surround Setup screen.

② Reverb level

This parameter adjusts the level of only the reverb (not the initial reflections). Raising the level makes the "mountain" higher. (Refer to the above illustration.) Use the ◀ or ▶ CURSOR buttons to adjust the level.

③ Reverb time

This parameter adjusts the time taken for the reverberation to decay completely. Lengthening the reverb time widens the base of the "mountain". Use the ◀ or ▶ CURSOR buttons to adjust the level.

NOTE:

For each parameter you can set 1 of 7 levels from 0.4 to 1.6.

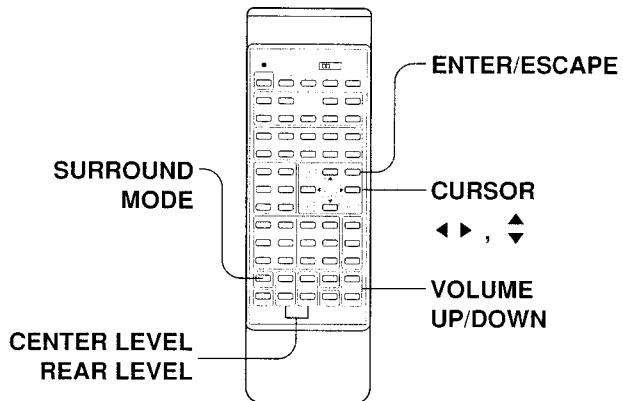
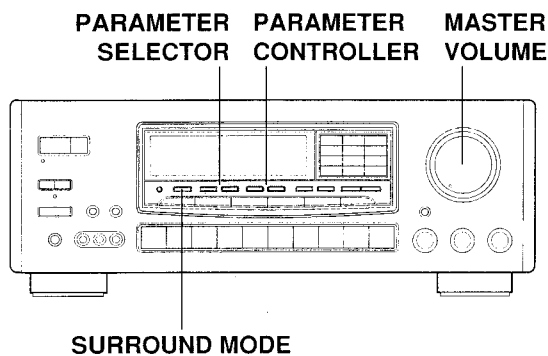
Explanation 7: Initialization

When using the cursor on the screen, initialization will result in the following initial settings.

Center Level = 0 dB	Effect Level = 1.0
Rear Level = 0 dB	Reverb Level = 1.0
Delay Time = 20 msec	Reverb Time = 1.0
Theater Size = 1.0	

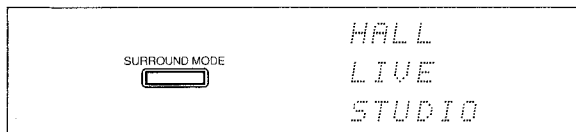
Adjusting the Hall, Live, and Studio Surround modes

Refer to page 25 for their basic operation.



When operating with the main unit

1. Use the SURROUND MODE button to select either HALL, LIVE or STUDIO.



2. Use the ◀ and ▶ PARAMETER SELECTOR buttons to select Center Mode. (Explanation 1, page 29)
 - If the Center mode was selected while in another Surround mode, there is no need to change it.
3. Use the ◀ and ▶ PARAMETER CONTROLLER buttons to select either NORMAL, WIDEBAND or PHANTOM.
4. Use the MASTER VOLUME to set the volume to the desired listening level.
5. Adjust the Center level and Rear level. (Explanation 2, page 30)

6. Select the Hall Size.

7. Select the Hall Shape. (Explanation 8, page 32)

8. Adjust the Effect Level.

- Refer to "Explanation 2: Effect level, reverb level and reverb time" on page 31.

9. Adjust Reverb Level.

- Refer to "Explanation 2: Effect level, reverb level and reverb time" on page 31.

10. Adjust Reverb Time.

- Refer to "Explanation 2: Effect level, reverb level and reverb time" on page 31.

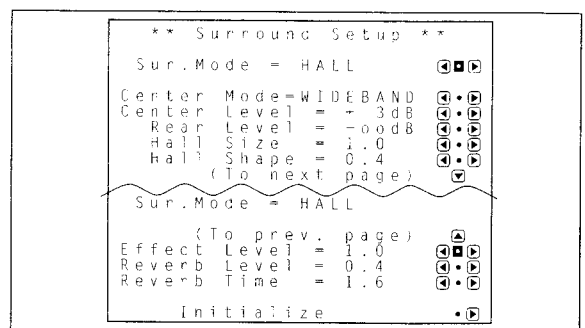
NOTES:

- If you need to initialize the set value for each parameter, carry out initialization. (Refer to Explanation 9 on this page.)
- In the Dolby Pro Logic and Theater surround modes, speech will be heard from the center speaker. In the Hall, Live and Studio Surround modes, speech will be heard from the Front Left and Right speakers. Therefore, in the Hall, Live and Studio modes, speech may become less audible.

When using the cursor on the screen

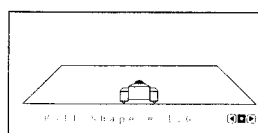
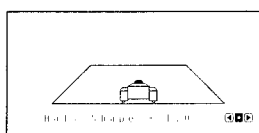
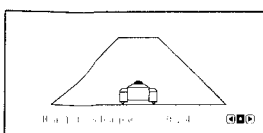
On the Surround Setup screen, use the ◀ and ▶ CURSOR buttons to change Sur. Mode to Hall (Live or Studio).

- Place the cursor on (To next page) or (To prev. page) to display the next or previous page. See illustration on the right.
- When setting is completed, press the ENTER/ESCAPE button to return to the menu screen.
- The test tone function is not provided with these Surround modes.
- We recommend that before making any adjustments, you initialize first (Refer to Explanation 9 on this page).



Explanation 8: Hall shape

Simulates the shape of the theater. 7 patterns from 0.4 to 1.6 can be selected. 0.4 to 0.8 simulates rectangular shapes, 1.0 simulates a square shape and 1.2 to 1.6 simulate oblong shapes, ie. the number is the ratio of hall breadth to length.



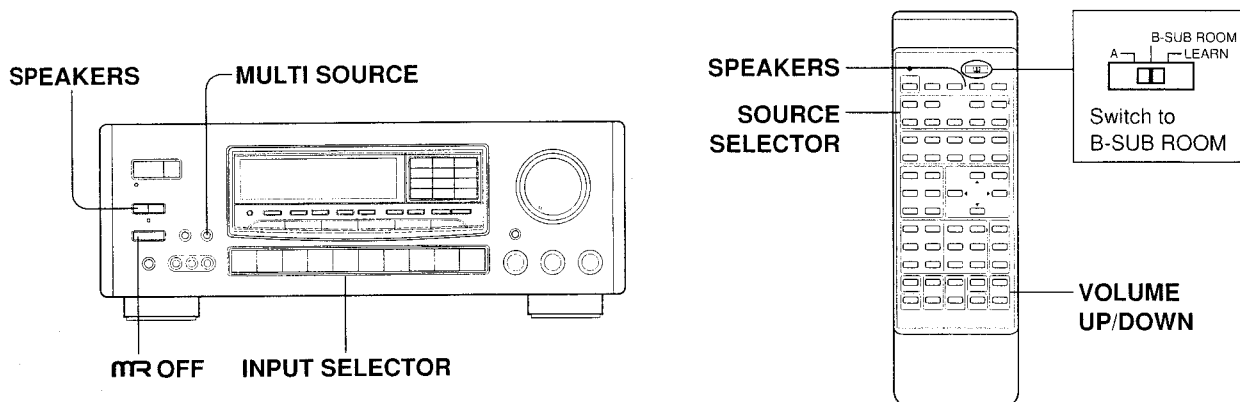
Explanation 9: Initialization

Initialization in HALL, LIVE and STUDIO modes will result in the following initialized values.

Center Level = 0dB
Rear Level = 0 dB
Hall Size = 1.0
Hall Shape = 1.0
Effect Level = 1.0
Reverb Level = 1.0
Reverb Time = 1.0

Listening to devices connected to the TX-SV717PRO in another room

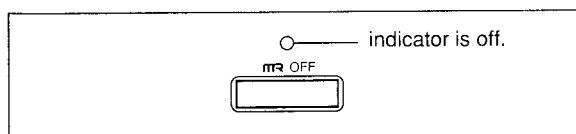
The TX-SV717PRO allows you to listen to the desired performance in another room (sub room) while listening to the playback of a device located in the main room. To do this, connect the speakers in another room to the Front SPEAKERS REMOTE terminals on the TX-SV717PRO. Remote control from another room can be done by employing the ONKYO Multiple Room Remote System (MR). Refer to the connections for Multiple Room Remote Control. Be sure to operate the remote control pointing it at the Remote Sensor HR-10. (See page 12) The following steps (except step 1) can be performed using the remote control. It is recommended that the adjustments described below be done in the main room in advance, since it is not possible to operate the remote control in another room while watching the display of the TX-SV717PRO. Make sure that recording is not being carried out before performing the following operations.



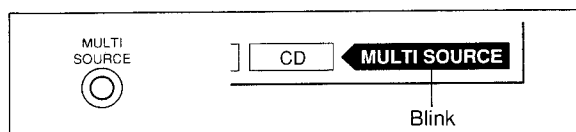
The buttons with the blue characters, and the lower buttons on the remote control are used when the switch is in the B-SUBROOM position. Please set the A / B-SUB ROOM / LEARN selector switch to the B-SUB ROOM position when using the remote control in the another room.

1. Turn the MR OFF button off.

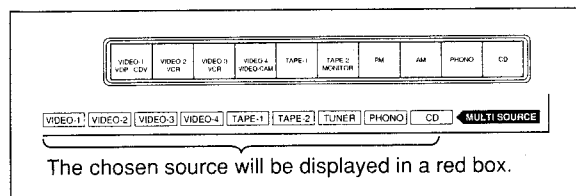
- MR OFF indicator is turned off.



2. Press the MULTI SOURCE button.



3. While this is flashing, use the Input Selector button to select the desired source.



- If the tuner is selected with MULTI SOURCE and the Input Selector is set to something other than TUNER, the tuners frequency and class displays will be shown for 5 seconds. During this time a tuner preset station can be selected.
- When changing the source, be sure to press the MULTI SOURCE button before pressing the Input Selector button. Pressing the Input Selector button without first pressing the MULTI SOURCE button will change the source in the main room.

MR off button (MR OFF) and indicator

Use this button for tape recording or for the Surround sound modes. It is used to disable control of the ONKYO MR system via the remote control in another room. Pressing this button will illuminate the indicator, and control from another room will be disabled. Pressing the button again will turn the indicator off, and control from the other room will be enabled.

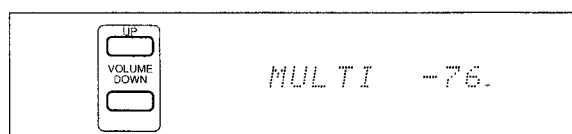
NOTES:

- The Surround mode will be turned OFF (Bypass) when the multi-source is used.

- The remote control can be used to perform steps 2 and 3 by first positioning the A/B-SUBROOM/LEARN selector switch to the B-SUBROOM position and pressing the SOURCE SELECTOR button.

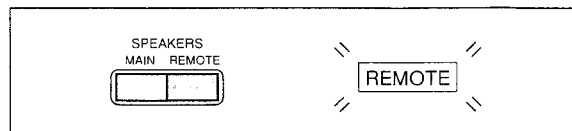
4. Adjust the level using the VOLUME UP/DOWN buttons on the remote control.

- MULTI and the level will be indicated on the display. It is recommended that the level be set lower in advance in the main room (-78 to -76dB).
- Note that before adjusting the level using the VOLUME UP/DOWN buttons, set the selector switch on the remote control to the B-SUB ROOM position. If the position is set to A, the MASTER VOLUME affects the speaker volume in the main room, not the sub room.



5. Press the SPEAKERS REMOTE button to illuminate the REMOTE indicator.

- Press the MAIN button to turn off the MAIN indicator if you are not listening to the sound in the main room.



- The source indicated by the Input Selector will be output from the TAPE-1 and 2, and VIDEO-2 and 3 REC OUT terminals.
- Pressing the REC OUT button will turn off the Remote speakers.
- If the multi source is selected, MR OFF will automatically be deactivated.
- If the multi source is selected for REC OUT, and the SURROUND MODE button is pressed, MR OFF will automatically be activated.

Using the remote control

You can use the remote control supplied with this Tuner Amplifier to operate the source devices selected for the multi-source if they are an ONKYO CD or cassette deck bearing the **RI** mark.

If you require a second remote control for the sub room, there is a remote control RC-MR 1H for the sub room, which is sold separately. Installation of the Remote Sensor HR-10 and the Remote Emitter HE-50(AC) is required to control non-ONKYO devices from another room (sub room). Operate the remote control included with the device by directing the remote control toward the HR-10 installed in the sub room.

If a problem occurs, carry out the same operation on the TX-SV717PRO's Front panel controls to verify that the problem is with the remote control.

If there is no problem when operating the TX-SV717PRO directly, check the batteries in the remote control first before assuming that there is a controller malfunction.

NOTES:

- If remote control operations are done in another room, the source on the Input Selector may change, or any recording being done on the TX-SV717PRO may be interrupted. Press the **MR** OFF button to disable control from another room. (The **MR** OFF indicator will be illuminated.)
- Some non-ONKYO remote controls cannot be used.

Learning remote control codes using the 10 programmable buttons

Universal Programmable Remote Control RC-253M

The RC-253M is a remote control which uses high-level computer technology to provide programming functions.

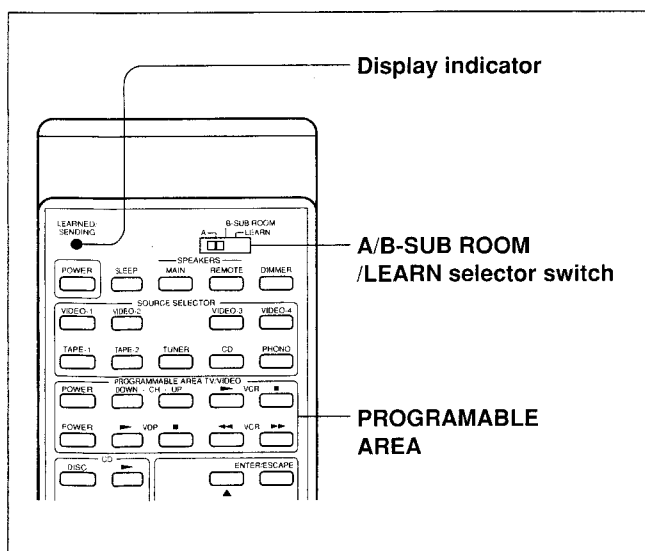
If you are using a product made by another company which has a remote control, you can memorize the codes of that product into the RC-253M. If you are using an ONKYO compact disc player, or cassette tape deck that has the **RI** mark, there is no need to memorize the codes of its remote control into the RC-253M. All of your remote control needs can be satisfied using the RC-253M alone.

NOTES:

- Commands of systems with the **RI** ONKYO mark are already stored at the A and B-SUB ROOM positions of the A/B-SUB ROOM/LEARN Selector switch. There is no need to "learn" them. (The **RI** mark is ONKYO's own mark.)

- If necessary, the 10 programmable buttons on the remote control can be reprogrammed to have a different function when the switch is in the A position, but not the B-SUB ROOM position.
- The output of most infrared remote control transmission units on the market today consists of a series of pulses (codes). By changing these codes, functions can be differentiated between products from different manufacturers. In order to mimic other remote controls, and control different devices with different codes, the RC-253M must be assigned the same codes as the other remote controls.

Displays and switches



The Display indicator (LEARNED/SENDING)

This indicator acts as a guide when this unit "learns" and is "sending" commands. It also warns the user when an error is made or when battery power is low.

If the indicator flashes

During learning, the indicator flashes if the codes being learnt are unstable and cannot be memorized properly. This is because the RC-253M requires highly stable transmission output for identifying codes. To ensure the reception of stable codes, place both remote control on a table or other level surface and position them at a fixed distance and orientation, facing each other.

Another possible reason for unstable transmission codes is worn-out batteries on the existing remote control. Replace the batteries of the existing remote control with new ones, then repeat the learning operation.

If the indicator flashes when a button is pressed on the RC-253M, it means that the RC-253M batteries are worn out. Replace its batteries with new ones.

The programmable buttons

The Programmable section consists of the following functions.

- | | |
|----------|--------------------------------|
| For TV: | Power (POWER) |
| | Channel up/down (DOWN-CH-UP) |
| For VDP: | Power (POWER) |
| | Play (▶), Stop (■) |
| For VCR: | Play (▶), Stop (■) |
| | Rewind (◀◀), Fast Forward (▶▶) |

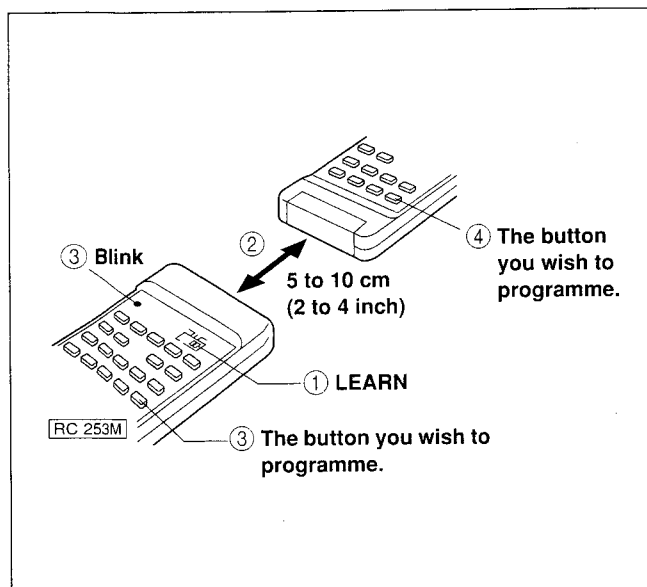
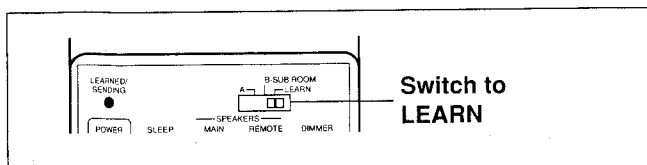
The RC-253M can also store remote control codes of other functions that are not indicated by these symbols, but they will have to use these buttons.

Be sure to assign functions to the buttons with the corresponding function names and/or symbols if at all possible. If functions and button names are different, the function which actually operates will be different from the label of the button you pushed.

For instructions regarding the operation of "learned" units, please refer to the individual instruction manuals for each product.

Even after codes have been memorized, please keep your existing remote control in a safe place. If the memorized codes are lost when the batteries run down, etc., it will be necessary to memorize them once again using the existing remote control.

“Learning” new controller codes

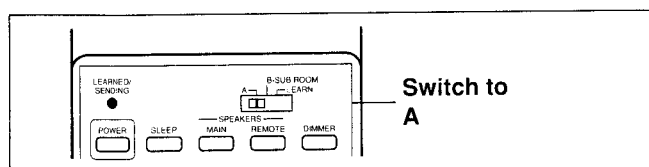


1. Set the A/B-SUB ROOM/LEARN selector switch to LEARN.
2. Place the head of your existing remote control 2-4 inches (5-10 cm) from the head of the RC-253M, laying both units on a table or another flat surface.
3. Press the button in the PROGRAMMABLE AREA of the RC-253M that you want to memorize the code into.
 - The LEARNED/SENDING indicator lights.
4. Hold down the button you want to memorize on your existing remote control while the LEARNED indicator is lighted, until the LEARNED indicator turns off.
5. To continue the process and memorize another button, repeat steps 3 – 4.
 - Hold down the button you wish to learn.

NOTES:

- Some remote controls use a single button to change codes, with the code changing each time the button is pressed. If you are using this kind of control, please perform “learn” operations for each function individually, one function to one RC-253M button.
- This remote control uses infrared rays. Most remote control codes can be memorized using the infrared system; however, depending on the degree to which the system differs, there are some rare occasions where memorization is not possible.

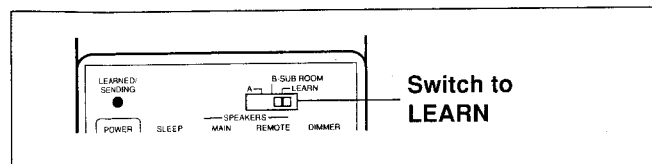
Operating the remote control



Set the A/B-SUB ROOM/LEARN selector switch to A position. Then operate the remote control by pressing the buttons of the functions you want to use.

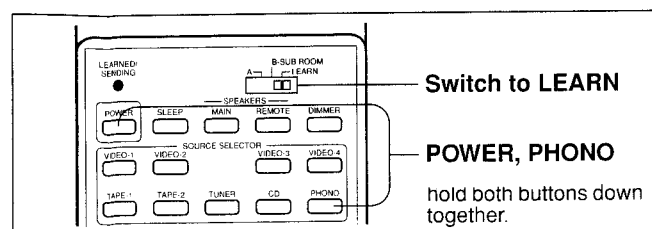
- There is no power switch for the remote control, as power is supplied automatically when a button is pressed. If no button is pressed for a short interval, power goes off automatically, to avoid wasting the battery.
- If you press a button for which no code has been memorized, the LEARNED/SENDING indicator will not light up.
- Please check whether previously memorized functions are working properly. If the SENDING indicator is not illuminated when a programmed button is pressed, it may need to be relearned from your existing remote control.

Changing commands



1. Set the A/B-SUB ROOM/LEARN selector switch to LEARN.
2. Commands should be memorized using the method outlined in the section “Learning” new controller codes.
 - Entering new codes for certain buttons does not affect the functions of the other memorized buttons.

How to reset the RC-253M (Clearing all memorized commands)



1. Switch the A/B-SUB ROOM/LEARN selector switch to LEARN.
2. Press and hold the POWER and PHONO buttons together until the LEARNED/SENDING indicator turns off.
 - The previous memory in the programmable area will be deleted.

Trouble shooting guide

If a problem occurs, first operate the unit using the Front panel controls to confirm that it is not due to a malfunction (or worn out batteries) of the remote control.

Trouble	Cause	Remedy
No power.	- Power cord is disconnected. - There is external noise in the computer circuits of the TX-SV717PRO. - AC fuse blown.	- Connect power cord. - Turn the power button off and then on again or remove the AC plug from the outlet. - Contact your ONKYO Service Center.
Power but no sound.	- TAPE-2 monitor switch is on. - Audio muting switch is on. - Bad/incorrect connections. - Amplifier protection circuitry has been activated. ('PROTECT' will be displayed.)	- Switch to off. - Switch to off with the remote control. - Check input leads, speaker leads, pin plugs, etc. - Contact your ONKYO Service Center.
No sound from the Center speaker, or very minimal sound.	- The speaker cables are connected to the DUAL terminals even though there is only 1 Center speaker. - Speaker cord is removed. - Surround mode is set to HALL, LIVE, STUDIO and OFF. - Center level is set to the minimum. - Center Mode is set to PHANTOM.	- Connect the speaker cables to the SINGLE terminals. - Check the connection between the amplifier and the speaker. - When HALL, LIVE or STUDIO is selected for the Surround mode, only effect sound will be output from the Center speaker. The sound level will be less compared to the sound level when the DOLBY PRO LOGIC or THEATER is selected. - When the Surround mode is set to OFF, no sound will output from the Center speaker. - Set the Center level to the appropriate volume. - Set Center Mode to NORMAL or WIDEBAND.
Hum, low-frequency noise.	- Poor or no input ground. - Poor or no phono motor ground. - The placement of the input/output cables on the Rear panel is incorrect.	- Check outer conductor of input plugs. - Check for proper ground connection. - Adjust the placement of the cable to reduce hum.
Howling when the volume is turned up.	Turntable and speakers are too close together.	Move them farther apart.
Rough or scratchy sound. High range is not clear.	- Stylus of pick-up is worn. - Stylus tip is dirty. - Treble control too high.	- Replace. - Clean. - Turn treble control down.
AM stations cannot be received.	AM loop antenna is not attached.	Connect the included AM loop antenna to the AM antenna terminals.
Buzzing noise on AM (particularly conspicuous at night or with weak stations).	Noise from electrical apparatus such as fluorescent lamp.	- Move the AM loop antenna to different position. - Set up an outdoor AM antenna.
High-pitched noise or buzzing noise on AM.	Noise from TV set.	- Place the AM loop antenna as far as possible from the TV. - Move unit away from TV set.
Crackling noise on AM, FM.	- Noise caused by turning fluorescent lamp on and off. - Noise from automobile ignition.	- Move antenna as far as possible from the fluorescent lamp. - Install an FM outdoor antenna as far as possible from the road. - Change the position or direction of the outdoor antenna.
FM tuned and stereo indicators light but sound is distorted and stereo separation is bad.	- Station is too strong. - Multiple reflection of the radio waves because of tall buildings or mountains.	- Change to T-shaped antenna. - Use antenna which has better directivity and select a point where the distortion is least.
FM tuned Indicators and STEREO indicator flicker and hiss is heard on FM.	- Station is too weak. - Stereo FM broadcasts cover only about half the distance of an ordinary broadcast.	- Install an outdoor FM antenna. - Change the position or direction of the outdoor antenna.
No station is recalled when a preset key is pressed.	The power cord has been unplugged for a long time.	The memory contents are lost. Store all stations again.
The Multiple Room Remote System does not operate.	- Connection is wrong. - The MR OFF button on the TX-SV717PRO is engaged. (The MR OFF indicator will be lit.)	- Check the connection again. - Press the MR OFF button. (The MR OFF indicator will be turned off.)
Front panel controls function but remote control does not.	- No batteries in remote control. - Batteries have worn out.	- Insert batteries. - Replace batteries.
Also refer to the respective instruction manuals of the Video Disc Player, video cassette recorder, TV monitor, etc., being used.		

NOTE:

The tuning steps by which the tuned frequency changes on each band have been set at the factory to the proper value for the country where each unit is to be sold. If you use the unit in a country where a different tuning step is required or if the broadcast frequencies in your country change so that you can not tune in radio stations precisely, contact your authorized ONKYO Service Center.

This device employs a microcomputer to perform various functions and operations. If interference generated by an external power supply, radio waves, or other electrical source results in an accident which causes the specified operations and functions to operate abnormally. To perform a reset, please follow the procedure below.

1. Press and hold down the CD button, then press the POWER button.
2. "Test-" is displayed on the display for approximately 5 seconds.
3. While "Test-" is displayed, unplug the TX-SV717PROs power cord from its AC outlet, then "Test-" will disappear.
4. Preset memory and parameters stored in memory, such as surround are initialized and will return to the factory settings.

Problem with the RC-253M remote control

If the remote control does not operate,	● First, try operations using the buttons of the main unit for each function. If operation is not possible, the fault is in the main unit and not the remote control. ● If the batteries are weak, replace the batteries.
The buttons of this remote control cannot be memorized or some remote control functions cannot be memorized.	● This remote control uses an infrared ray system and most functions can be memorized. However, there may some instances where memorization is not possible or some remote control functions cannot be memorized due to the output method.
It is difficult to memorize functions using the buttons of this remote control, and even when a function has been memorized, operation is incorrect.	● The RC-253M is not aimed directly at the other remote control, or the distance between the two units is out of range. Confirm that these two factors are correct. ● Confirm whether the batteries of your existing remote control are weak. (If the batteries are weak, it may be impossible to operate a function or to memorize functions. Insert new batteries and try again.) ● The RC-253M remote control uses an infrared ray system and most functions can be memorized. However, there may be some instances where memorization is not possible or some remote control functions cannot be memorized due to the output method of the other remote control.
The functions of the television, video, etc., memorized into this remote control do not operate properly with the buttons.	● Make sure the functions memorized correspond to the characters or marks on the buttons. The functions will operate as memorized, without relation to the characters or marks on the button. ● If the batteries are weak, it may be impossible to memorize functions. Insert the indicated type of batteries into your existing remote control and into this remote control, and try memorizing the code once again. (Make sure the new batteries are the correct type indicated for the equipment.)
If the operable distance of the RC-253M is shorter than that of the existing remote control, or if the reaction time of the machine is slow when using the RC-253M.	● The operable distance of this remote control and your existing remote control are different. In this case, it may happen that the operable distance is shortened. ● Try memorizing once again, making sure you are memorizing at an appropriate distance. ● Check that the batteries are not weak. ● It may be simply that the correspondence between the unit and machine is slow.
The codes memorized by the button of RC-253M have been "forgotten".	● If the batteries are taken out of the unit for more than one hour, memorized codes will be lost. In this case, please memorize the codes once again.

Specifications

AMPLIFIER SECTION

Power Output:	Stereo mode Front L/R channels 110 watts per channel min. RMS. at 8 ohms, both channels driven, from 20 Hz to 20,000 Hz, with no more than 0.08% total harmonic distortion.
	Surround mode and Multi source mode Front L/R and center channels 85 watts per channel min. RMS at 8 ohms, with no more than 0.2% total harmonic distortion at 1,000 Hz
	Rear or Remote channels 30 watts per channel min. RMS at 8 ohms with no more than 0.8% total harmonic distortion at 1,000 Hz
Total Harmonic Distortion:	0.08% at rated power (FRONT)
IM Distortion:	0.08% at rated power (FRONT)
Damping Factor:	60 at 8 ohms (FRONT)
Sensitivity and Impedance:	Phono: 2.5 mV/50 kohms CD/Tape Play: 150 mV/50 kohms Tape Rec: 150 mV/2.2 kohms Pre out (FRONT): 1V 2.2 kohms (REAR/CENTER/MULTI SOURCE): 1V 2.2 kohms Mono out (SUBWOOFER): 1V 2.2 kohms
Phono Overload:	120 mV RMS. at 1,000 Hz, 0.5% THD.
Frequency Response:	20 to 30,000 Hz, +/-1 dB
RIAA Deviation:	20 to 20,000 Hz, +/-0.8 dB
Tone Control:	BASS: +/-10 dB at 100 Hz TREBLE: +/-10 dB at 10,000 Hz
Signal to Noise Ratio:	PHONO: 80 dB (IHF A, 5 mV input) CD/TAPE: 100 dB (IHF A)
Muting:	- ∞ dB

VIDEO SECTION

Signal sensitivity and impedance:	VDP/VCR input, output: 1 Vp-p, 75 ohms
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TUNER SECTION

FM:

Tuning Range:	87.5 — 108.0 MHz (50 kHz steps)
Usable Sensitivity:	Mono: 11.2 dBf, 1.0 µV (75 ohms) Stereo: 17.2 dBf, 2.0 µV (75 ohms)
50dB Quieting Sensitivity:	Mono: 17.2 dBf, 2.0 µV (75 ohms) Stereo: 37.2 dBf, 20 µV (75 ohms)
Capture Ratio:	1.5 dB
Image Rejection Ratio:	40 dB
IF Rejection Ratio:	90 dB
Signal-to-Noise Ratio:	Mono: 73 dB Stereo: 67 dB
Alternate Channel Attenuation:	55 dB
AM Suppression Ratio:	50 dB
Total Harmonic Distortion:	Mono: 0.15% Stereo: 0.25%
Frequency Response:	30 — 15,000 Hz +/-1.5 dB
Stereo Separation:	45 dB at 1 kHz/30 dB at 100 — 10,000 Hz

AM:

Tuning Range:	USA & Canadian models 530 — 1710 kHz (10 kHz steps) Worldwide models 531 — 1602 kHz (9 kHz steps)
Usable Sensitivity:	30 µV
Image Rejection Ratio:	40 dB
IF Rejection Ratio:	40 dB
Signal-to-Noise Ratio:	40 dB
Total Harmonic Distortion:	0.7%

REMOTE CONTROL RC-253M

Transmitter:	Infrared
Signal range:	Approx. 5 meters (16ft.4")
Power supply:	Two AA batteries (1.5V x 2)

GENERAL

Power Supply:	USA & Canadian models AC120 V, 60 Hz Worldwide models 120 and 220 V switchable, 50/60 Hz
Dimensions (W x H x D):	455 x 170 x 388 mm 17-15/16" x 6-11/16" x 15-5/16"
Weight:	13.9 kg (30.6 lbs)

Specifications and features are subject to change without notice.

ONKYO CORPORATION

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